



BHARATH COLLEGE OF SCIENCE AND MANAGEMENT
(UGC RECOGNISED 2(f) & 12 (B) INSTITUTION)
AFFILIATED TO BHARATHIDASAN UNIVERSITY -TIRUCHIRAPPALLI
THANJAVUR - 613005

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH1- PROPERTIES OF MATTER AND ACOUSTICS
COURSE OUTCOME

CO1	Study the different modulus of elasticity and determine the rigidity modulus and moment of inertia.
CO2	To understand the expression for bending moment and determination of young's modulus.
CO3	To understand the experimental study of surface tension and variation of surface tension.
CO4	To understand the fundamental process of Newton's law and recognizing Mayer's formula to this problems.
CO5	To study the factors affecting the acoustics of building.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	3	3	3	3	3
CO2	2	2	2	2	1
CO3	2	2	2	1	1
CO4	2	3	1	1	2
CO5	2	1	0	2	2
Average	2.2	2.2	1.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Name	Register No	CO1	CO2	CO3	CO4	CO5	Total
1	ABINASH S	CB17S 436221	2	3	2	3	4	14
2	ASWATHI B	CB17S 436223	4	5	2	4	5	20
3	BHARATHKUMAR R	CB17S 436224	3	3	3	4	4	17
4	CHANDRU P	CB17S 436225	4	4	3	3	3	17
5	DINESH K	CB17S 436226	3	2	3	3	2	13
6	GUNAL V	CB17S 436227	3	3	2	2	3	13
7	GUNASEKARAN A	CB17S 436228	3	2	3	3	2	13
8	HARIPRASATH S	CB17S 436229	4	2	3	3	2	14
9	KAVIYARASAN K	CB17S 436230	3	2	3	2	3	13
10	KEERTHANA B	CB17S 436231	4	4	4	3	5	20
11	MAHADEV R	CB17S 436232	3	3	5	4	4	19
12	MAHESWARI D	CB17S 436233	4	5	5	5	5	24
13	MANISHA E	CB17S 436234	2	3	2	4	3	14
14	MUTHUKUMAR R	CB17S 436235	4	2	2	4	2	14
15	NAVEENKUMAR M	CB17S 436236	4	2	2	2	2	12

16	PANDITHURAI S	CB17S 436237	2	4	2	2	2	12
17	RAJKUMAR R	CB17S 436238	2	4	2	2	2	12
18	RENGARAJ R	CB17S 436239	2	2	3	2	3	12
19	REYON FRANCES B	CB17S 436240	4	4	4	2	4	18
20	ROSHINI BEGUM M	CB17S 436241	3	5	5	5	5	23
21	SHALINI K	CB17S 436242	4	4	4	4	5	21
22	SORNAMUHI G	CB17S 436243	3	2	3	5	3	16
23	SUDHAKAR S	CB17S 436244	3	2	2	4	4	15
24	VIJAYKUMAR T	CB17S 436245	4	4	2	2	2	14
25	VINODHA S	CB17S 436246	4	4	4	4	4	20
26	VISNUPRAKASH K	CB17S 436247	2	2	3	3	3	13
Average			3.19	3.15	3.00	3.23	3.31	



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.19	75	78.19	91.99
CO2	3.15	75	78.15	91.95
CO3	3.00	75	78.00	91.76
CO4	3.23	75	78.23	92.04
CO5	3.31	75	78.31	92.13

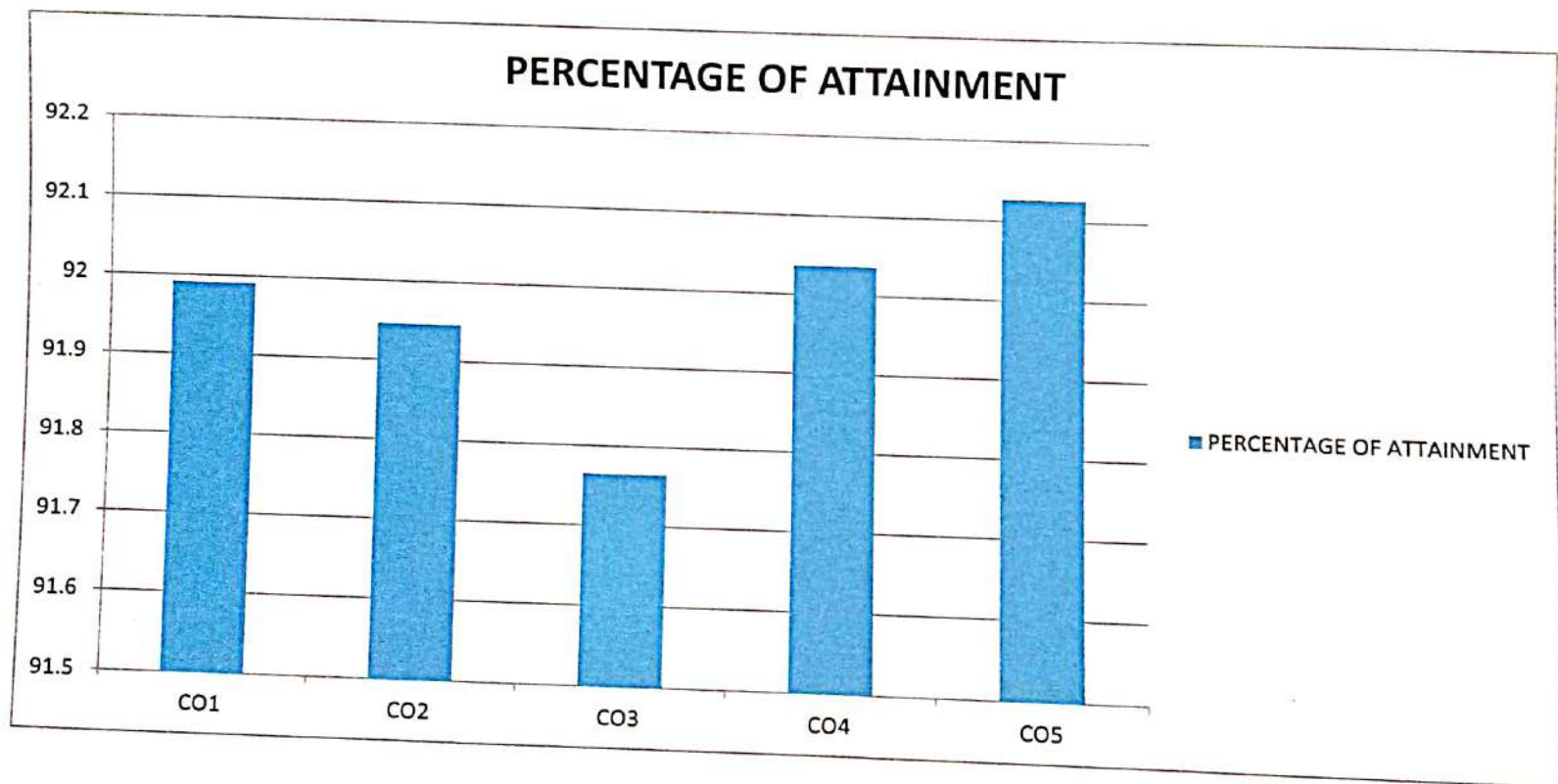
SUBJECT NAME: PROPERTIES OF MATTER AND ACOUSTICS

SUBJECT CODE : 16SCCPH1

NO.OF STUDENTS : 26

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	91.99
CO2	91.95
CO3	91.76
CO4	92.04
CO5	92.13





COURSE ATTAINMENT FOR B.Sc Physics

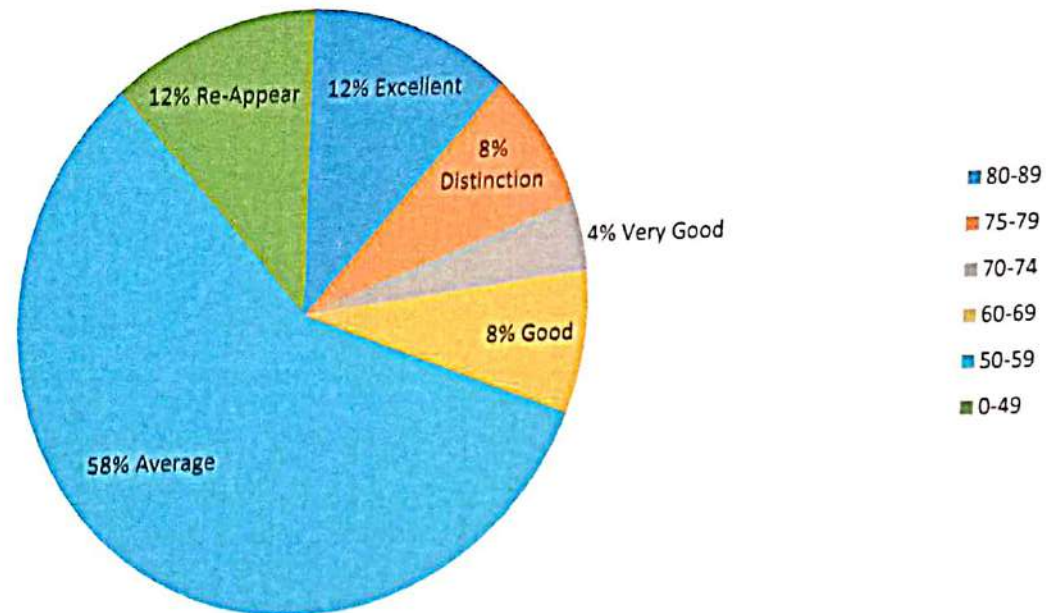
SUBJECT NAME : PROPERTIES OF MATTER AND ACOUSTICS
 SUBJECT CODE : 16SCCPH1
 NO.OF STUDENTS : 26

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	3	EXCELLENT
75-79	2	DISTINCTION
70-74	1	VERY GOOD
60-69	2	GOOD
50-59	15	AVERAGE
0-49	3	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	11.54	EXCELLENT
75-79	7.69	DISTINCTION
70-74	3.85	VERY GOOD
60-69		GOOD
50-59		AVERAGE
0-49		RE-APPEAR



COURSE OUTCOME ASSESSMENT



[Signature]
PRINCIPAL

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PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH2- MECHANICS

COURSE OUTCOME

CO1	To understand the fundamentals laws of impact,particle projected in any direction&concept of Direct&oblique impact.
CO2	To understand the expression for normal acceleration&variation of g with altitude,latitude and depth.
CO3	To understand the determine the Newton's law of gravitation and analysis of gravitational potential and field.
CO4	To understand laws of friction,fundamental process of moment of inertia recognizing Kater's pendulum.
CO5	The course foundation of centre of gravity in accordance with atmospheric pressure.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	2	2	2	1	1
CO2	1	1	0	2	1
CO3	2	1	1	1	2
CO4	2	3	2	1	3
CO5	3	3	0	2	3
Average	2	2	1	1.4	2

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Name	Register No	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	ABINASH S	CB17S 436221	5	5	4	5	2	21	84
2	ASWATHI B	CB17S 436223	5	5	5	5	5	25	100
3	BIHARATHIKUMAR R	CB17S 436224	5	5	5	4	5	24	96
4	CHANDRU P	CB17S 436225	5	5	4	4	5	23	92
5	DINESH K	CB17S 436226	5	5	5	4	2	21	84
6	GUNAL V	CB17S 436227	5	5	5	3	4	22	88
7	GUNASEKARAN A	CB17S 436228	5	5	5	3	2	20	80
8	HARIPRASATH S	CB17S 436229	2	5	5	5	3	20	80
9	KAVIYARASAN K	CB17S 436230	5	5	5	3	2	20	80
10	KEERTHANA B	CB17S 436231	5	5	5	5	5	25	100
11	MAHADEV R	CB17S 436232	5	5	5	4	4	23	92
12	MAHESWARI D	CB17S 436233	5	5	5	5	5	25	100
13	MANISHA E	CB17S 436234	5	4	5	3	3	20	80
14	MUTHUKUMAR R	CB17S 436235	5	5	5	4	2	21	84
15	NAVEENKUMAR M	CB17S 436236	4	4	4	5	3	20	80
16	PANDITHURAI S	CB17S 436237	5	5	5	4	2	21	84

17	RAJKUMAR R	CB17S 436238	5	5	5	4	2	21	84
18	RENGARAJ R	CB17S 436239	5	5	4	4	2	20	80
19	REYON FRANCES B	CB17S 436240	5	5	5	5	5	25	100
20	ROSHINI BEGUM M	CB17S 436241	4	5	3	4	4	20	80
21	SHALINI K	CB17S 436242	3	4	5	5	5	22	88
22	SORNAMUHI G	CB17S 436243	5	4	4	5	3	21	84
23	SUDHAKAR S	CB17S 436244	4	4	4	4	4	20	80
24	VIJAYKUMAR T	CB17S 436245	5	5	4	4	2	20	80
25	VINODHA S	CB17S 436246	3	3	5	4	5	20	80
26	VISNUPRAKASH K	CB17S 436247	4	4	4	4	4	20	80
Average			4.58	4.69	4.62	4.19	3.46		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.58	75	79.58	93.62
CO2	4.69	75	79.69	93.76
CO3	4.62	75	79.62	93.67
CO4	4.19	75	79.19	93.17
CO5	3.46	75	78.46	92.31

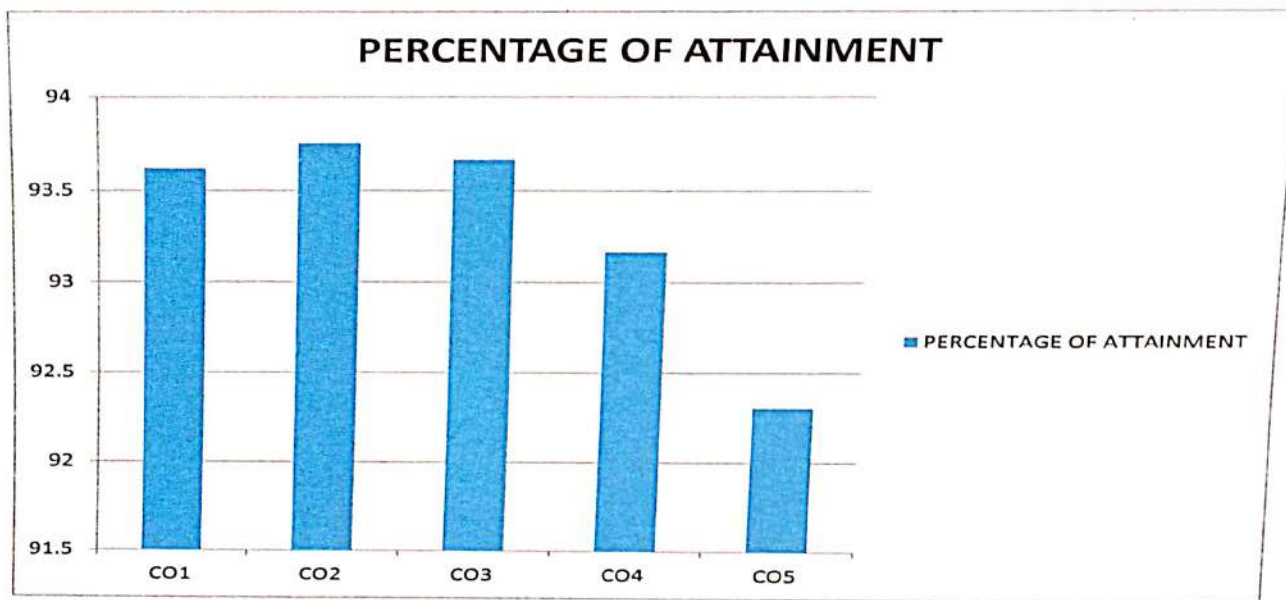
SUBJECT NAME: MECHANICS

SUBJECT CODE : 16SCCPH2

NO.OF STUDENTS : 26

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	93.62
CO2	93.76
CO3	93.67
CO4	93.17
CO5	92.31



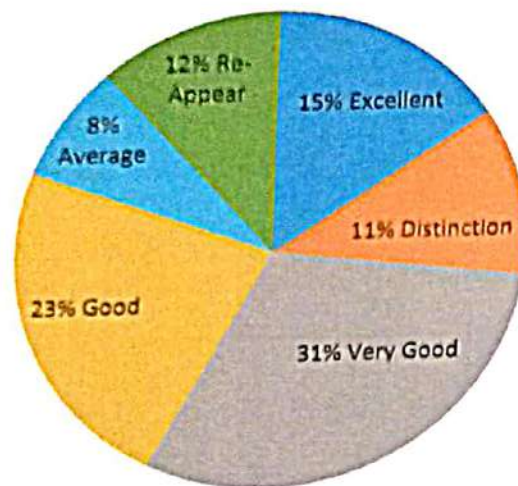


COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	4	EXCELLENT
75-79	3	DISTINCTION
70-74	8	VERY GOOD
60-69	6	GOOD
50-59	2	AVERAGE
0-49	3	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	15.38	EXCELLENT
75-79	11.54	DISTINCTION
70-74	30.77	VERY GOOD
60-69	23.08	GOOD
50-59	7.69	AVERAGE
0-49	11.54	RE-APPEAR



COURSE OUTCOME ASSESSMENT



- 80-89
- 75-79
- 70-74
- 60-69
- 50-59
- 0-49




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PO2	To understand the structure, characteristics of various physical phenomena and their properties.
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16SCCPH3- Thermal physics
COURSE OUTCOME

CO1	Learn fundamental laws, specific heat of matter.
CO2	Known about Laws of heat, properties of metals and uses conclusion of heat.
CO3	Learn Laws of Radiation, Experiment, conclusion of temperature of sun, uses of solar energy.
CO4	Principles of law Temperature, experimental, application of law temperature, cooling energy
CO5	Laws of Thermodynamics, change of reversible and irreversible processes, Thermodynamical relations.



Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH3 Thermal physics	CO1	0	2	0	0	2
	CO2	2	2	0	1	1
	CO3	0	0	1	2	1
	CO4	1	1	0	1	2
	CO5	0	1	1	0	0
	Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB16S 432626	AARTHI	4	3	3	3	3	16	64
2	CB16S 432627	AKALYA V	3	3	3	3	4	16	64
3	CB16S 432628	ARAVINDHAN S	3	3	3	2	2	13	52
4	CB16S 432629	ARUNKUMAR D	2	3	3	3	3	14	56
5	CB16S 432630	BRINDHA K	3	3	3	3	4	16	64
6	CB16S 432632	FARHANA. S	4	4	4	4	5	21	84
7	CB16S 432633	FATHIMABEVI M	4	4	4	4	4	20	80
8	CB16S 432634	GAYATHRI M	5	5	5	4	5	24	96
9	CB16S 432635	GAYATHIRI N	4	3	4	3	3	17	68
10	CB16S 432636	GOKULAKRISHNAN V	5	4	5	4	4	22	88
11	CB16S 432637	GOPALAKRISHNAN T	2	2	2	3	3	12	48
12	CB16S 432638	HARIHARAN P	3	3	3	2	2	13	52
13	CB16S 432639	KOMALAVALLI K	3	4	4	4	4	19	76
14	CB16S 432640	MATHAVAN S	3	2	2	2	3	12	48
15	CB16S 432641	MEGALA H	3	3	3	3	3	15	60
16	CB16S 432642	MOUNIKA V	4	4	4	4	4	20	80
17	CB16S 432643	MURALI M	2	2	2	2	2	10	40
18	CB16S 432644	NANDHINI V	3	3	4	4	4	18	72

19	CB16S 432645	PAVITHRA S	3	3	3	2	2	13	52
20	CB16S 432646	PRAKASH S	2	2	2	2	2	10	40
21	CB16S 432648	RAGAVAN S R	2	2	3	3	2	12	48
22	CB16S 432649	RAMYA B	4	3	3	3	3	16	64
23	CB16S 432650	SAMUEL SYCE. S	3	4	4	4	4	19	76
24	CB16S 432651	SANDHIYA C	2	2	2	2	2	10	40
25	CB16S 432652	SARANYA. T	3	2	2	2	2	11	44
26	CB16S 432653	SHOLOM RICH J	2	2	2	2	2	10	40
27	CB16S 432654	SINDHU BAIRAVI S	3	3	3	3	3	15	60
28	CB16S 432655	SUNDARAM C	2	3	3	2	2	12	48
29	CB16S 432656	THANUSIYA A	4	4	4	4	3	19	76
30	CB16S 432657	THINAGARAN K	2	2	2	2	2	10	40
31	CB16S 432658	VARSHADEVI D	3	3	4	3	3	16	64
32	CB16S 432659	VASANTH J	2	2	2	2	2	10	40
33	CB16S 432660	VEMBARASI K	3	3	4	4	3	17	68
34	CB16S 432661	VIGNESH R	2	2	2	2	2	10	40
35	CB16S 432662	VIJAY V	2	2	2	2	2	10	40
36	CB16S 432663	YOGALAKSHMI M	3	3	4	4	4	18	72
Average			2.97	2.92	3.11	2.92	2.97		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	2.97	75	77.97	91.73
CO2	2.92	75	77.92	91.67
CO3	3.11	75	78.11	91.89
CO4	2.92	75	77.92	91.67
CO5	2.97	75	77.97	91.73

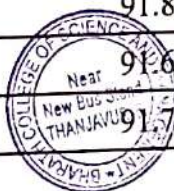
Course Attainment for B.Sc Physics

Subject Name: Thermal Physics

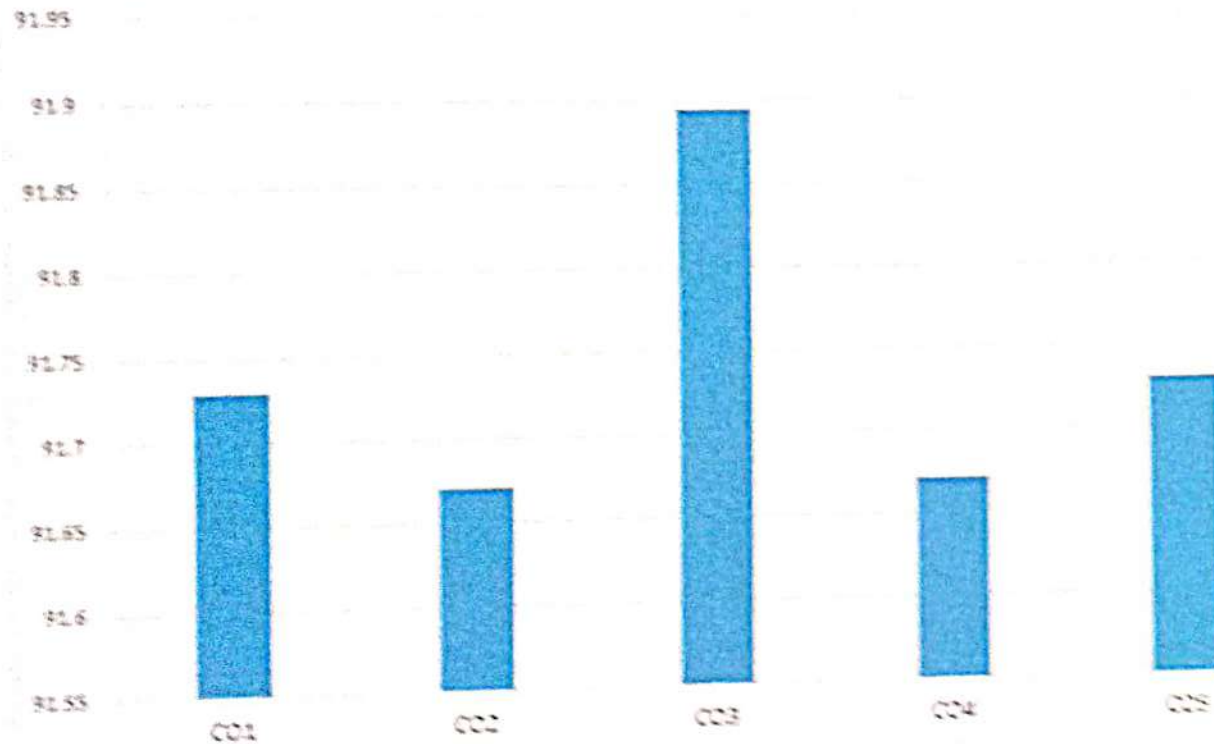
Subject Code: 16SCCPH4

Number of Students: 36

Course Outcome	Percentage of Attainment
CO1	91.73
CO2	91.67
CO3	91.89
CO4	91.67
CO5	91.73

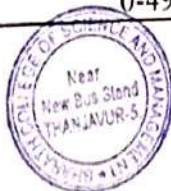


Percentage of Attainment

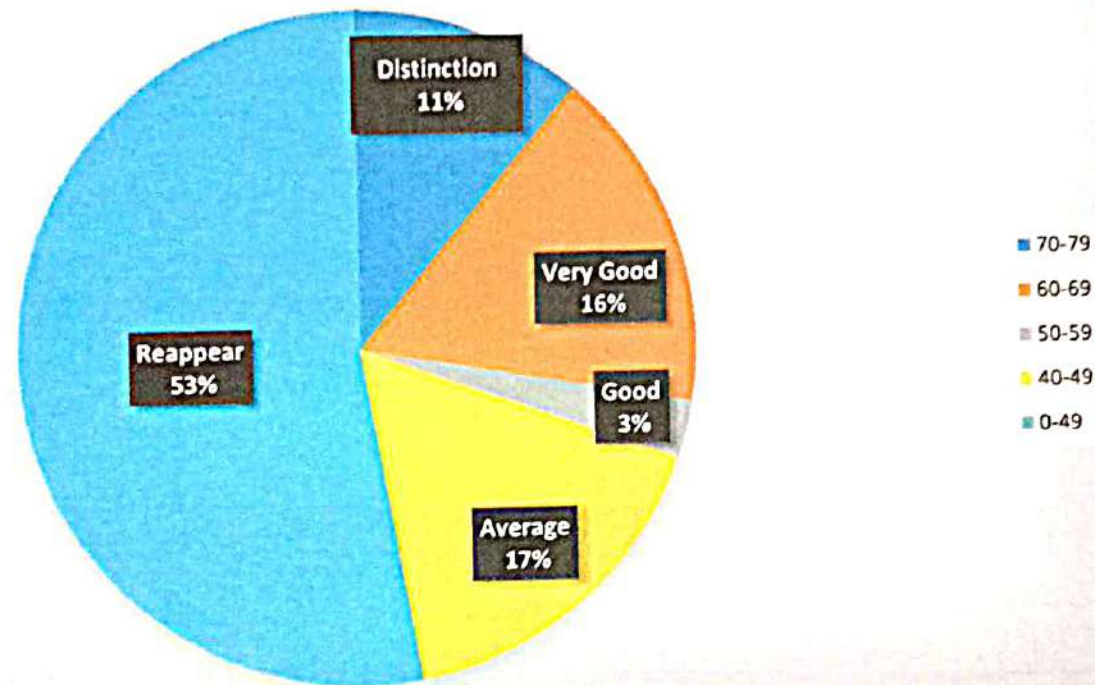


Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	4	Distinction
60-69	6	Very Good
50-59	1	Good
40-49	6	Average
0-49	19	Reappear

Course Outcome Percentage		
Category (Marks)	Percentage	Status
70-79	11.11	Distinction
60-69	16.67	Very Good
50-59	2.78	Good
40-49	16.67	Average
0-49	52.78	Reappear



Course Outcome Percentage



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16SCCPH4- ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM
COURSE OUTCOME

CO1	Coulombs law, Gauss's Law, Principle of Capacity and Loss of Energy Calculation
CO2	Critical Law.Kirchhoff's Law,Calibration of Ammeter and Voltmeter
CO3	Laws of Electromagnetic induction.Self and Mutual induction Decay of Current in a circuit
CO4	Series Circuit,Q-factor Calculation, Power in AC Circuits and Ueses of Transformers
CO5	Propertites of magnetic matrial ,Energy loss due to magnetic.



Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH4- ELECTRICITY, MAGNETISM AND ELECTROMAGN ETISM	CO1	2	0	1	1	0
	CO2	2	1	1	1	1
	CO3	1	0	0	0	1
	CO4	1	1	1	0	2
	CO5	0	2	0	1	1
	Average	1.2	0.8	0.6	0.6	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB16S 432626	AARTHI K	3	3	4	4	3	17	68
2	CB16S 432627	AKALYA V	3	3	3	3	3	15	60
3	CB16S 432628	ARAVINDHAN S	3	3	3	2	2	13	52
4	CB16S 432629	ARUNKUMAR D	2	3	3	3	3	14	56
5	CB16S 432630	BRINDHA K	4	3	3	3	3	16	64
6	CB16S 432632	FARIHANA. S	3	4	4	4	3	18	72
7	CB16S 432633	FATHIMABEVI M	3	3	4	4	3	17	68
8	CB16S 432634	GAYATHRI M	4	4	3	4	4	19	76
9	CB16S 432635	GAYATHIRI N	3	2	3	3	3	14	56
10	CB16S 432636	GOKULAKRISHNAN V	4	4	4	3	4	19	76
11	CB16S 432637	GOPALAKRISHNAN T	2	3	2	3	2	12	48
12	CB16S 432638	HARIHARAN P	2	3	2	3	3	13	52
13	CB16S 432639	KOMALAVALLI K	3	3	4	4	4	18	72
14	CB16S 432640	MATHAVAN S	3	3	3	2	2	13	52
15	CB16S 432641	MEGALA H	2	2	3	3	3	13	52
16	CB16S 432642	MOUNIKA V	4	4	4	4	3	19	76
17	CB16S 432643	MURALI M	3	3	2	2	2	12	48
18	CB16S 432644	NANDHINI V	3	3	2	2	3	13	52

19	CB16S 432645	PAVITHRA S	3	2	3	3	3	14	56
20	CB16S 432646	PRAKASH S	3	3	2	2	2	12	48
21	CB16S 432648	RAGAVAN S R	2	2	3	3	2	12	48
22	CB16S 432649	RAMYA B	2	3	3	3	2	13	52
23	CB16S 432651	SANDHIYA C	2	2	3	3	2	12	48
24	CB16S 432653	SHOLOM RICH J	3	2	3	3	3	14	56
25	CB16S 432654	SINDHU BAIRAVI S	3	3	4	4	3	17	68
26	CB16S 432655	SUNDARAM C	3	2	3	2	3	13	52
27	CB16S 432656	THANUSIYA A	3	3	4	4	3	17	68
28	CB16S 432657	THINAGARAN K	2	2	3	2	2	11	44
29	CB16S 432658	VARSHADEVI D	3	4	3	3	3	16	64
30	CB16S 432659	VASANTH J	2	2	2	2	3	11	44
31	CB16S 432660	VEMBARASI K	3	3	4	3	3	16	64
32	CB16S 432661	VIGNESH R	2	3	3	2	2	12	48
33	CB16S 432662	VIJAY V	2	2	2	3	3	12	48
34	CB16S 432663	YOGALAKSHMI M	3	3	3	3	3	15	60
Average			2.79	2.85	3.06	2.97	2.79		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	2.79	75	77.79	91.52
CO2	2.85	75	77.85	91.59
CO3	3.06	75	78.06	91.84
CO4	2.57	75	77.57	91.26
CO5	2.79	75	77.79	91.52

Course Attainment for B.Sc Physics

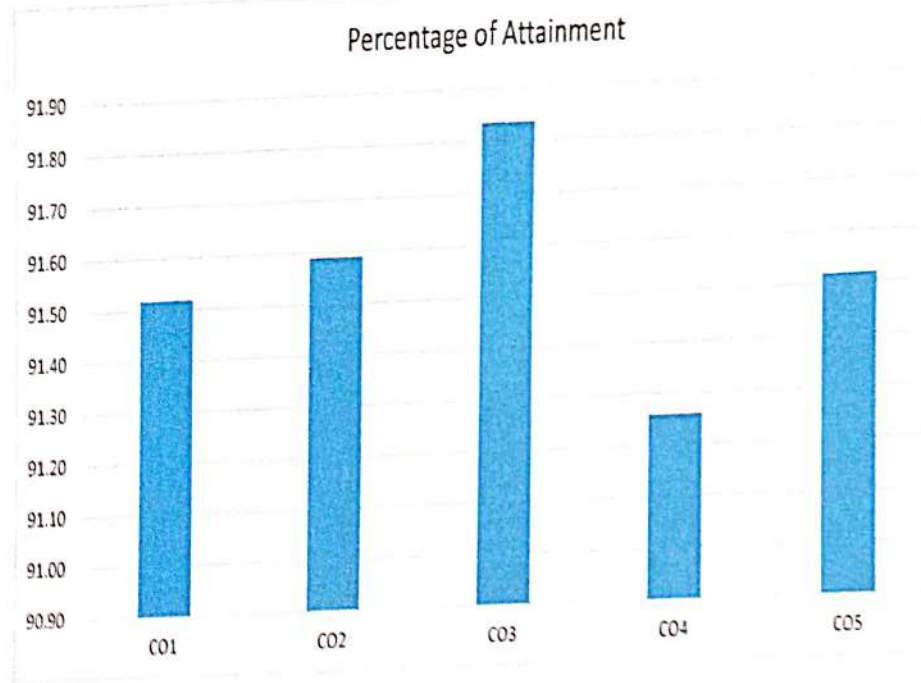
Subject Name: ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM

Subject Code: 16SCCPH4

Number of Students:34

Course Outcome	Percentage of Attainment
CO1	91.52
CO2	91.59
CO3	91.84
CO4	91.26
CO5	91.52



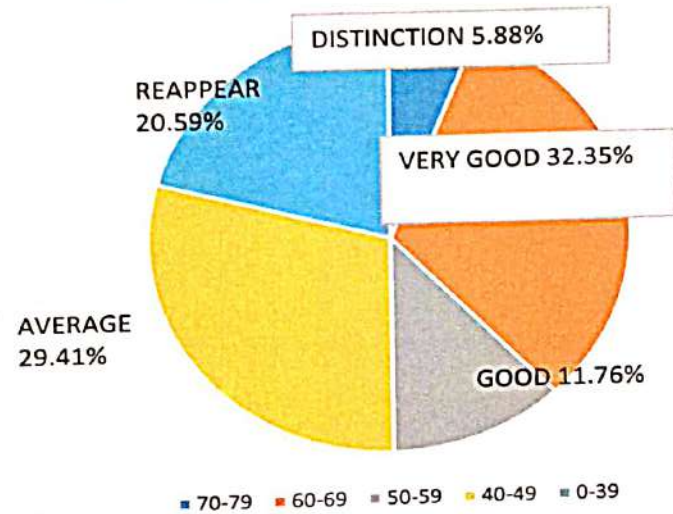


Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	2	Distinction
60-69	11	Very Good
50-59	4	Good
40-49	10	Average
0-39	7	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
70-79	5.88	Distinction
60-69	32.35	Very Good
50-59	11.76	Good
40-49	29.41	Average
0-39	20.59	Reappear



Course Outcome Assessment Percentage



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THANJAVUR - 613005

Attainment of program outcomes and course outcomes
Course Outcome-Programme Outcome Mapping
Department of Physics

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interpret data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

RCCSPH5-OPTICS
COURSE OUTCOME

CO1	Study different types of Spherical aberration and Chromatic aberration in a lens
CO2	Fundamental of Stationary waves and its applications of interference
CO3	To study different types of Fresnel's diffraction and Fraunhofer diffraction.
CO4	To understand fundamental process of double image polarizing prism and experimental of Laurent's half shade polarimeter.
CO5	To understand various types of Eyepieces and accordance with microscope and Telescope.

PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	1	2	0	1	1
CO2	2	3	0	2	1
CO3	3	2	1	2	3
CO4	2	3	3	3	3
CO5	0	2	0	2	0
Average	1.6	2.4	0.8	2	1.6

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB15S 429196	AKILAN K	3	3	3	3	3	15	60
CB15S 429197	BABYSHALINI M	4	4	4	2	4	18	72
CB15S 429198	DINESHKUMAR V	2	2	4	4	4	16	64
CB15S 429199	HEMA M	4	4	4	3	3	18	72
CB15S 429200	JOSEPHRAJ S	5	4	3	3	4	19	76
CB15S 429201	KANNADAZAN S R	4	3	4	4	2	17	68
CB15S 429202	KANTHALAKSHMI R	4	4	4	4	5	21	84
CB15S 429203	LOGATHARANI D	4	5	4	4	5	22	88
CB15S 429204	MADHAN P	3	4	3	5	4	19	76
CB15S 429205	MANIKANDAN N	3	5	3	3	4	18	72
CB15S 429206	MONISHA M	4	4	4	4	4	20	80
CB15S 429207	MUTHAMIZHSELVI R	2	3	3	3	5	16	64
CB15S 429208	MUTHUKUMAR B	3	2	3	4	2	14	56
CB15S 429209	PRAKASH D	3	4	3	5	2	17	68
CB15S 429210	PRIYA M	5	2	4	4	4	19	76
CB15S 429211	RAGUL R	3	3	3	3	3	15	60
CB15S 429212	PAVIPRABHA S	5	3	3	4	5	20	80
CB15S 429213	RENUGA A	4	4	4	4	3	19	76
CB15S 429214	SINDHU R	3	4	3	4	4	18	72
CB15S 429215	SUMITHRA K	4	4	4	4	5	21	84
CB15S 429216	THENMOZHI R	4	4	4	4	4	20	80
CB15S 429217	VITHYABOOMA V	3	3	3	4	4	17	68
CB15S 429218	VINITHA P	4	3	3	3	4	17	68
Average		3.61	3.52	3.48	3.70	3.78		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.61	75	78.60869565	92.48
CO2	3.52	75	78.52173913	92.38
CO3	3.48	75	78.47826087	92.33
CO4	3.70	75	78.69565217	92.58
CO5	3.78	75	78.7826087	92.69

COURSE ATTAINMENT FOR B.Sc Physics

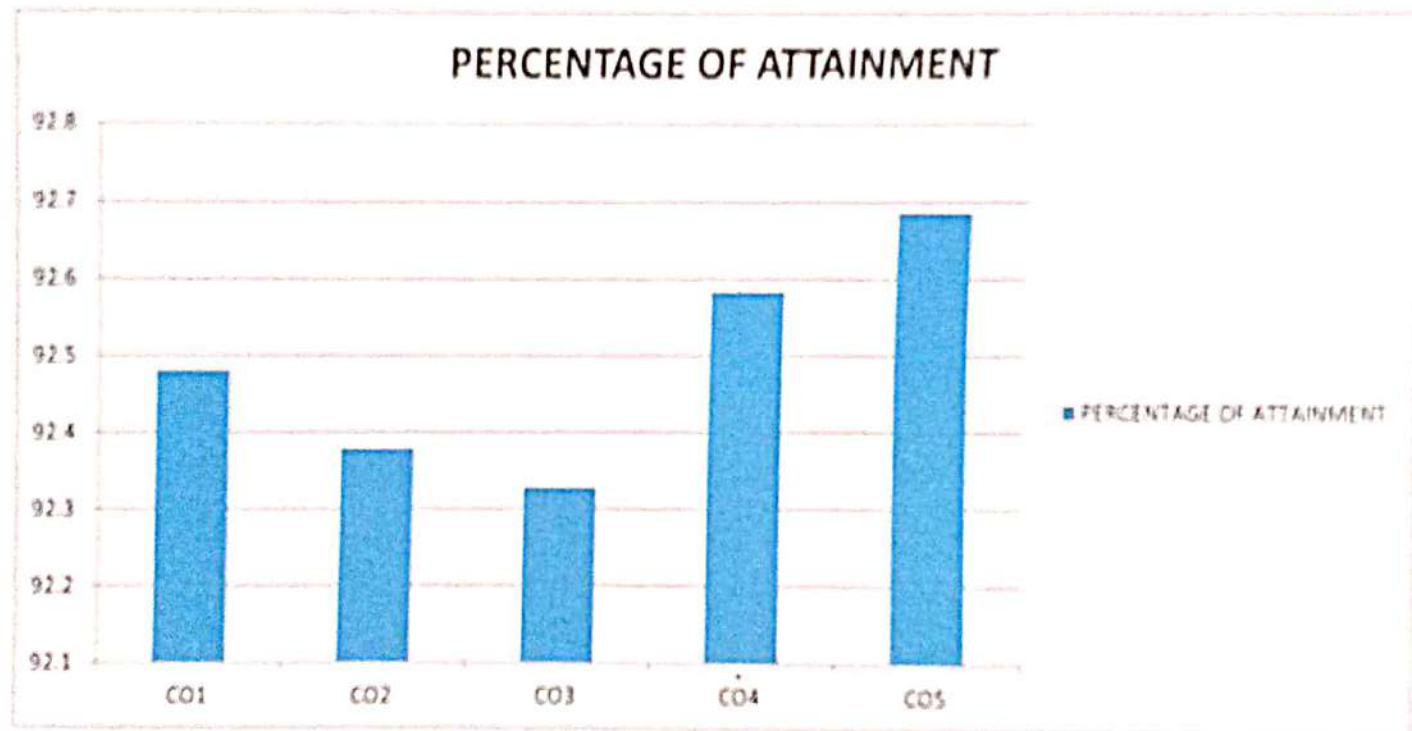
SUBJECT NAME: Optics

SUBJECT CODE : RCCSPH5

NO.OF STUDENTS : 23

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	92.48
CO2	92.38
CO3	92.33
CO4	92.58
CO5	92.69





COURSE ATTAINMENT FOR B.Sc Physics

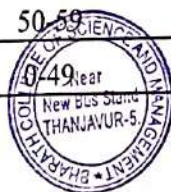
SUBJECT NAME : Optics

SUBJECT CODE : RCCSPH5

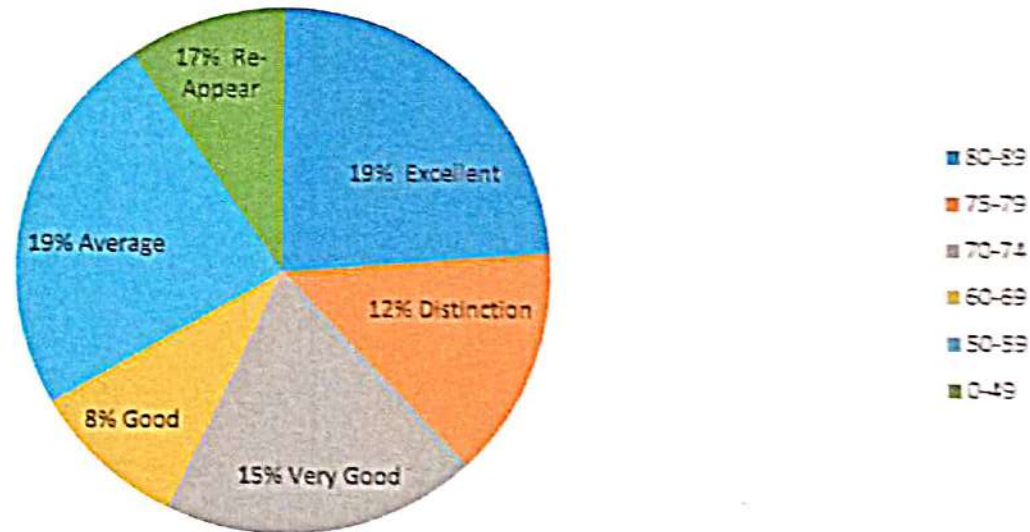
NO.OF STUDENTS : 23

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	5	EXCELLENT
75-79	3	DISTINCTION
70-74	4	VERY GOOD
60-69	2	GOOD
50-59	5	AVERAGE
0-49	4	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	19.23	EXCELLENT
75-79	11.54	DISTINCTION
70-74	15.38	VERY GOOD
60-69	7.69	GOOD
50-59	19.23	AVERAGE
0-49	17.39	RE-APPEAR



COURSE OUTCOME ASSESSMENT



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BHARATH COLLEGE OF SCIENCE AND MANAGEMENT, THANJAVUR – 5

(UGC Recognized 2(f) & 12(B) Institution)

(Affiliated to Bharathidasan University, Tiruchirappalli – 24)

Attainment of program outcomes and course outcomes

Course Outcome-Programme Outcome Mapping

Department of Physics -2017-2018

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

RCCSPH6 - Atomic and Nuclear physics

COURSE OUTCOME

CO1	Study properties of rays, production, charge calculation by experimental.
CO2	Fundamental of atom, structure, principles and effect of experiments.
CO3	Production and detection of x-rays, Laws of x-rays and characteristics of x-rays.
CO4	Nuclear reactions, conservation laws, Q-value calculations, Nuclear reactor.
CO5	Elementary particles, conservation laws, Quark model.

PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	1	2	0	1	1
CO2	3	3	0	2	1
CO3	2	1	1	1	2
CO4	2	3	2	3	3
CO5	3	3	0	2	2
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



s.no	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB15S 429196	AKILAN K	3	2	2	2	2	11	44
2	CB15S 429197	BABYSHALINI M	3	3	3	3	4	16	64
3	CB15S 429198	DINESHKUMAR V	4	3	3	3	3	16	64
4	CB15S 429199	HEMA M	3	3	3	4	5	18	72
5	CB15S 429200	JOSEPHRAJ S	5	4	3	3	2	17	68
6	CB15S 429201	KANNADAZAN S R	4	5	4	5	5	23	92
7	CB15S 429202	KANTHALAKSHMI R	4	4	4	5	5	22	88
8	CB15S 429203	LOGATHARANI D	4	4	4	4	4	20	80
9	CB15S 429204	MADHAN P	4	4	5	4	4	21	84
10	CB15S 429205	MANIKANDAN N	4	5	4	4	4	21	84
11	CB15S 429206	MONISHA M	4	4	4	4	4	20	80
12	CB15S 429207	MUTHAMIZHSELVI R	2	3	3	2	2	12	48
13	CB15S 429208	MUTHUKUMAR B	2	2	2	3	3	12	48
14	CB15S 429209	PRAKASH D	3	3	3	3	3	15	60
15	CB15S 429210	PRIYA	3	3	3	3	3	15	60
16	CB15S 429211	RAGUL R	3	3	3	3	4	16	64
17	CB15S 429212	PAVIPRABHA S	4	3	4	3	3	17	68
18	CB15S 429213	RENUGA A	4	4	3	4	3	18	72
19	CB15S 429214	SINDHU R	4	4	4	4	4	20	80
20	CB15S 429215	SUMITHRA K	4	4	3	4	4	19	76
21	CB15S 429216	THENMOZHI R	4	4	4	3	4	19	76
22	CB15S 429217	VITHYABOOMA V	3	4	3	4	3	17	68
23	CB15S 429218	VINITHA P	3	3	3	3	3	15	60
Average			3.52	3.52	3.35	3.48	3.52		

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.52	75	78.52	92.38
CO2	3.52	75	78.52	92.38
CO3	3.35	75	78.35	92.18
CO4	3.48	75	78.48	92.33
CO5	3.52	75	78.52	92.38

Course Attainment for B.Sc Physics

Subject Name: Atomic and Nuclear Physics

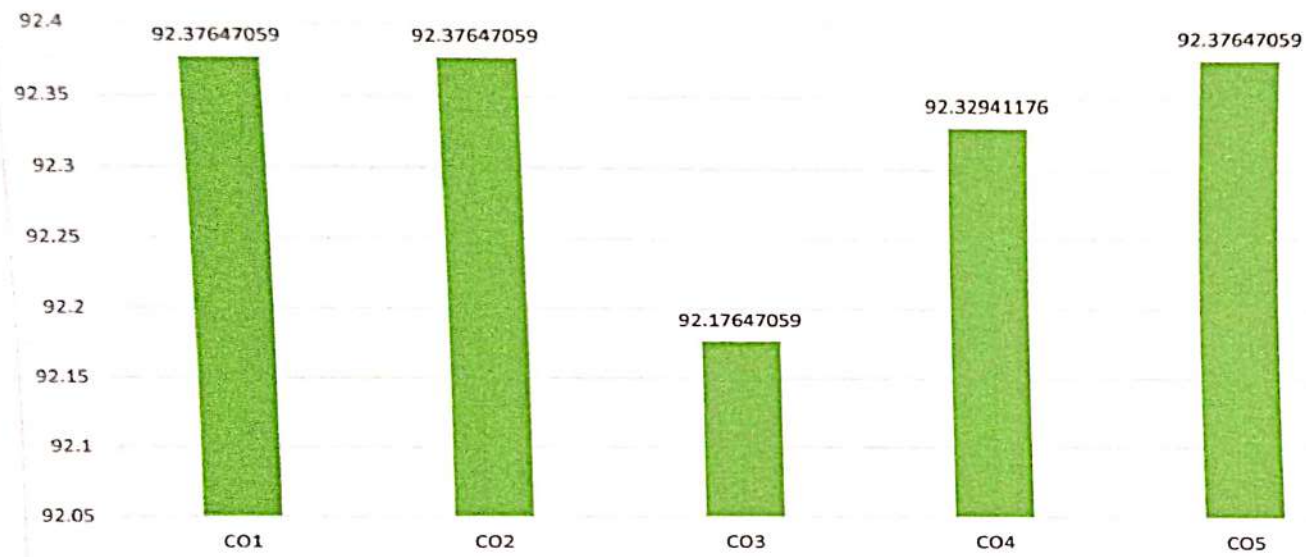
Subject Code: RCCSPH6

Number of Students: 23

Course Outcome	Percentage of Attainment
CO1	92.38
CO2	92.38
CO3	92.18
CO4	92.33
CO5	92.38



Course Outcome Attainment

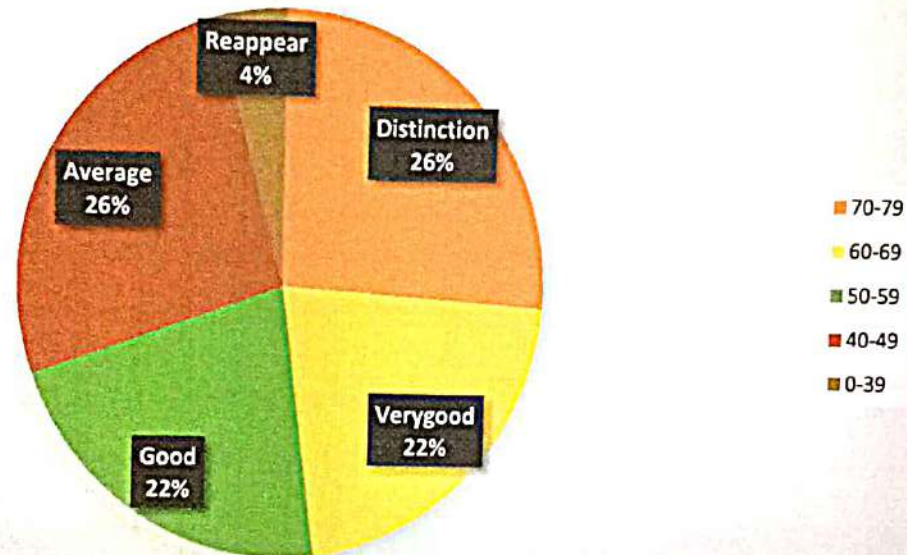


Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	6	Distinction
60-69	5	Very Good
50-59	5	Good
40-49	6	Average
0-39	1	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
70-79	26.09	Distinction
60-69	21.74	Very Good
50-59	21.74	Good
40-49	26.09	Average
0-39	4.35	Reappear



Course Outcome Assessment



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AFFILIATED TO BHARATHIDASAN UNIVERSITY -TIRUCHIRAPPALLI
THANJAVUR - 613005

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill. .

RCCSPH7- ANALOGELECTRONICS
COURSE OUTCOME

CO1	To understand the features of semiconductor and zener diode and their fundamental concepts
CO2	Design different types of oscillator.
CO3	Understand the working of basic gates.
CO4	Choose flip flop for a particular application.
CO5	Design operational amplifier circuits and to analyse their properties.



PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	3	3	0	1	2
CO2	1	3	2	2	1
CO3	0	1	1	3	2
CO4	0	1	2	1	3
CO5	0	0	0	2	2
Average	0.8	1.6	1	1.8	2

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB15S 429196	AKILAN K	3	3	3	2	3	14	56
2	CB15S 429197	BABYSHALINI M	3	3	3	3	3	15	60
3	CB15S 429198	DINESHKUMAR V	4	3	3	3	3	16	64
4	CB15S 429199	HEMA M	3	3	3	4	4	17	68
5	CB15S 429200	JOSEPHRAJ S	5	4	3	4	3	19	76
6	CB15S 429201	KANNADAZAN S R	5	5	4	5	5	24	96
7	CB15S 429202	KANTHALAKSHMI R	4	4	4	5	5	22	88
8	CB15S 429203	LOGATHARANI D	4	4	4	4	4	20	80
9	CB15S 429204	MADHAN P	4	4	3	3	3	17	68
10	CB15S 429205	MANIKANDAN N	4	4	3	3	3	17	68
11	CB15S 429206	MONISHA M	4	4	4	3	3	18	72
12	CB15S 429207	MUTHAMIZHSELVI R	2	3	2	2	2	11	44
13	CB15S 429208	MUTHUKUMAR B	2	2	2	4	4	14	56
14	CB15S 429209	PRAKASH D	3	3	3	2	2	13	52
15	CB15S 429210	PRIYA	3	3	3	2	2	13	52
16	CB15S 429211	RAGUL R	3	3	3	2	2	13	52
17	CB15S 429212	PAVIPRABHA S	3	3	3	3	3	15	60
18	CB15S 429213	RENUGA A	3	3	3	3	3	15	60
19	CB15S 429214	SINDHU R	4	4	3	3	3	17	68
20	CB15S 429215	SUMITHRA K	4	4	3	4	3	18	72
21	CB15S 429216	THENMOZHII R	4	4	3	3	3	17	68
22	CB15S 429217	VITHYABOOMA V	3	3	3	3	3	15	60
23	CB15S 429218	VINITHA P	2	2	2	3	3	12	48
Average			3.43	3.39	3.04	3.17	3.13		

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.43	75	78.43	92.27
CO2	3.39	75	78.39	92.22
CO3	3.04	75	78.04	91.81
CO4	3.17	75	78.17	91.96
CO5	3.13	75	78.13	91.92

COURSE ATTAINMENT FOR B.Sc physics

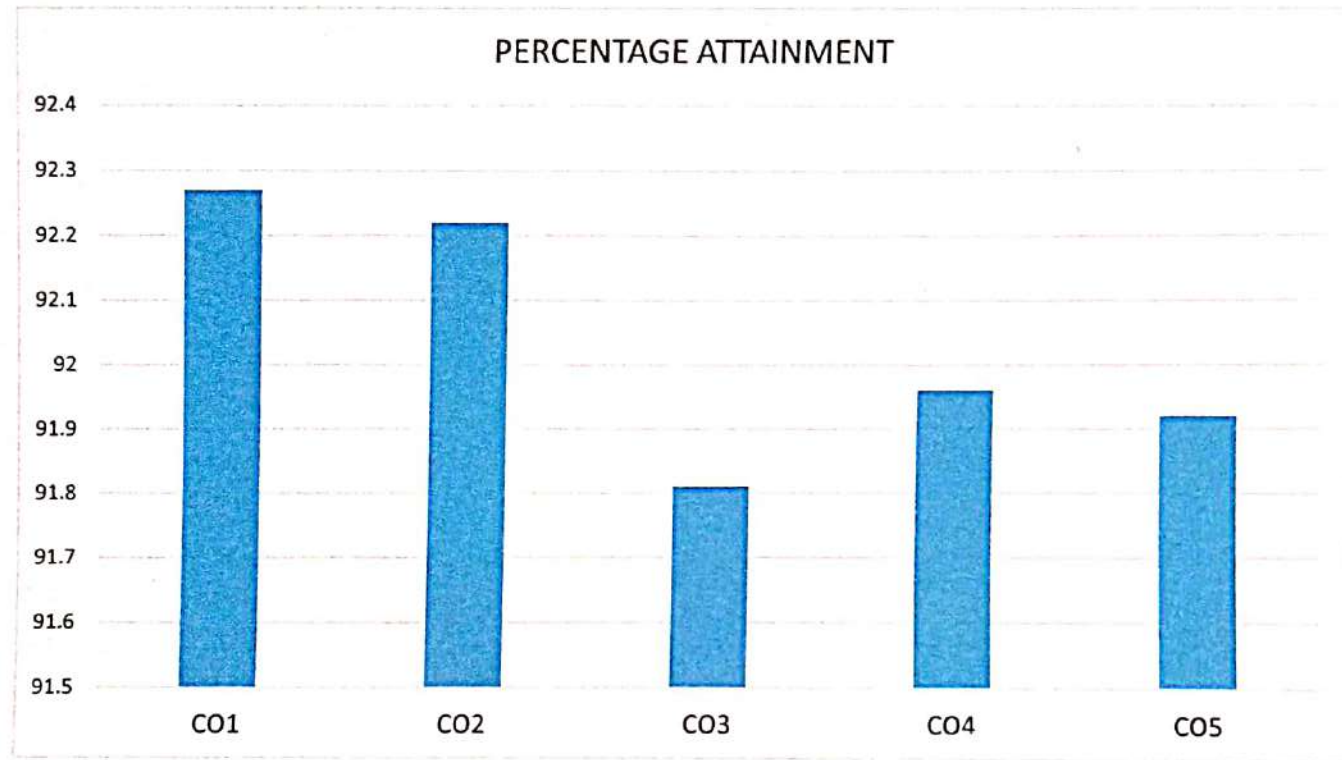
SUBJECT NAME: ANALOGELECTRONICS

SUBJECT CODE :RCCSPH7

NO OF STUDENTS:23

COURSE OUTCOME	PERCENTAGE ATTAINMENT
CO1	92.27
CO2	92.22
CO3	91.81
CO4	91.96
CO5	91.92



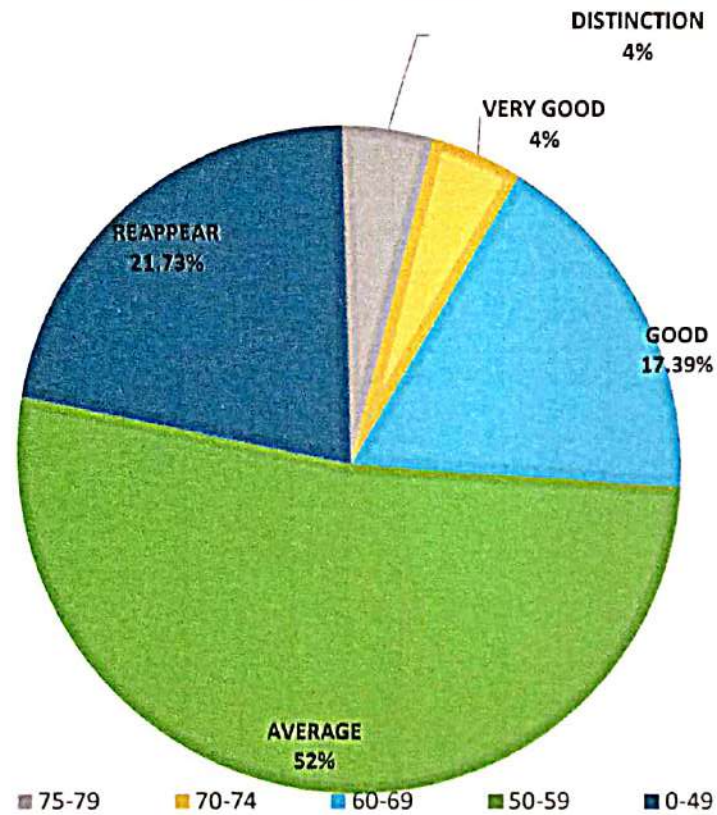


COURSE OUTCOME ASSESSMENT		
CATEGORY	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	0	EXCELLENT
75-79	1	DISTINCTION
70-74	1	VERY GOOD
60-69	4	GOOD
50-59	12	AVERAGE
0-49	5	REAPPEAR

COURSE OUTCOME ASSESSMENT		
CATEGORY	PERCENTAGE	STATUS
75-79	4.34%	DISTINCTION
70-74	4.34%	VERY GOOD
60-69	17.39%	GOOD
50-59	52.17%	AVERAGE
0-49	21.73%	REAPPEAR



PERCENTAGE



[Signature]
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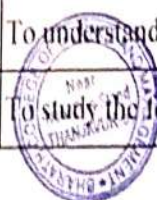
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THANJAVUR - 613005

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

RCCSPH8- ELEMENTS OF THEORITICAL PHYSICS
COURSE OUTCOME

CO1	Study fundamental laws, Conservation theorem and Symmetry properties.
CO2	To understand the characteristics of generalized momentum and Cyclic co-ordinate.
CO3	To understand experimental study of matter waves and Debroglie relation.
CO4	To understand the development of Schrodinger wave equation and properties of wave function
CO5	To study the foundation of Quantum system.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	3	3	0	3	3
CO2	3	3	0	2	1
CO3	2	1	1	1	2
CO4	2	2	2	3	3
CO5	3	3	3	2	2
Average	2.6	2.4	1.2	2.2	2.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB15S 429197	BABYSHALINI M	3	3	3	3	4	16	64
2	CB15S 429198	DINESHKUMAR V	4	3	3	3	3	16	64
3	CB15S 429199	HEMA M	3	4	4	4	4	19	76
4	CB15S 429200	JOSEPHRAJ S	3	3	4	4	4	18	72
5	CB15S 429201	KANNADAZAN S R	3	4	4	5	4	20	80
6	CB15S 429202	KANTHALAKSHMI R	4	4	4	4	4	20	80
7	CB15S 429203	LOGATHARANI D	3	4	4	4	3	22	88
8	CB15S 429204	MADHAN P	4	3	4	4	4	19	76
9	CB15S 429205	MANIKANDAN N	4	4	3	3	4	18	72
10	CB15S 429206	MONISHA M	4	3	3	3	3	16	64
11	CB15S 429207	MUTHAMIZHSELVI R	3	3	3	3	3	15	60
12	CB15S 429208	MUTHUKUMAR B	2	3	3	3	3	14	56
13	CB15S 429209	PRAKASH D	3	3	4	4	3	17	68
14	CB15S 429210	PRIYA	4	3	3	3	3	16	64
15	CB15S 429211	RAGUL R	2	3	4	4	4	17	68
16	CB15S 429212	PAVIPRABHA S	5	5	5	3	3	21	84
17	CB15S 429213	RENUGA A	3	4	3	4	3	17	68
18	CB15S 429214	SINDHU R	3	3	3	4	4	17	68
19	CB15S 429215	SUMITHRA K	4	5	5	4	4	22	88
20	CB15S 429216	THENMOZHI R	3	4	4	4	4	19	76
21	CB15S 429217	VITHYABOOMA V	3	3	4	4	4	18	72
22	CB15S 429218	VINITHA P	3	3	4	3	3	16	64
		Average	3.32	3.50	3.68	3.64	3.55		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.32	75	78.32	92.14
CO2	3.5	75	78.5	92.35
CO3	3.68	75	78.68	92.56
CO4	3.64	75	78.64	92.52
CO5	3.55	75	78.55	92.41

COURSE ATTAINMENT FOR B.Sc Physics

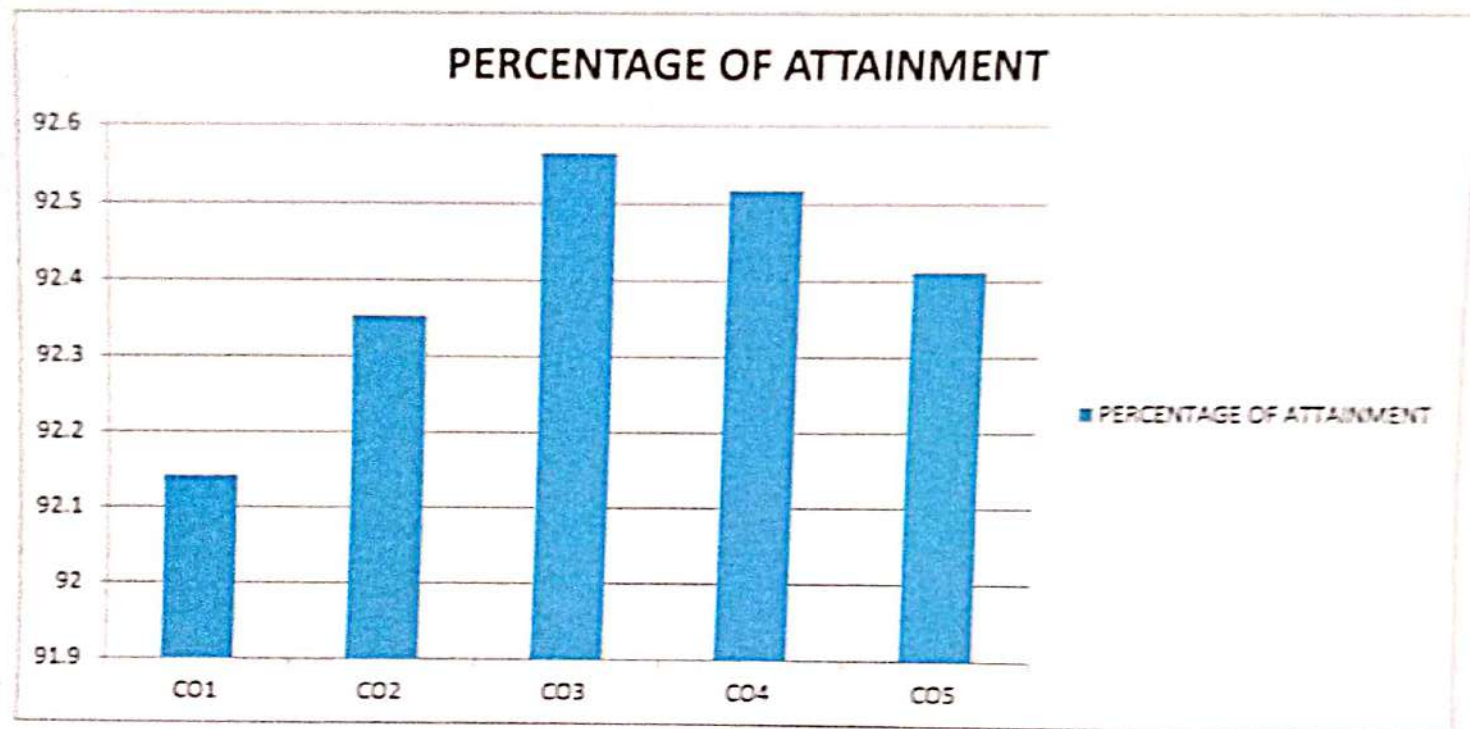
SUBJECT NAME: ELEMENTS OF THEORITICAL PHYSICS

SUBJECT CODE : RCCSPH8

NO.OF STUDENTS : 22

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	92.14
CO2	92.35
CO3	92.56
CO4	92.52
CO5	92.41



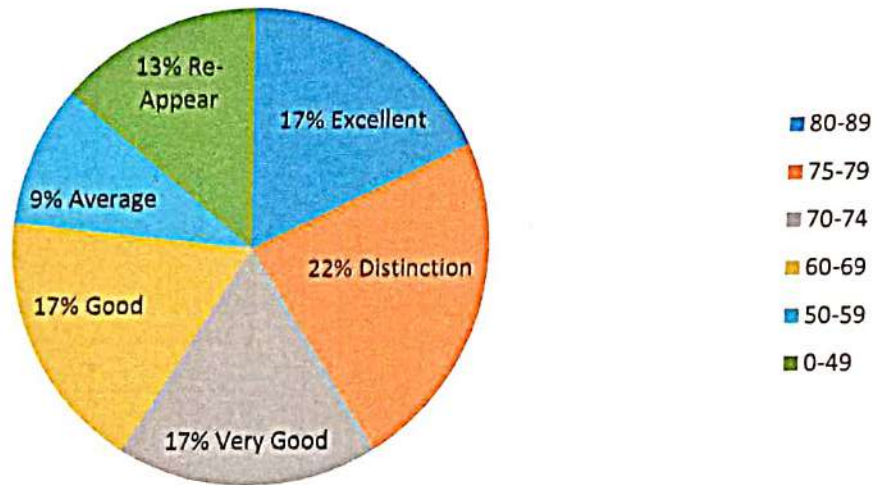


COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	4	EXCELLENT
75-79	5	DISTINCTION
70-74	4	VERY GOOD
60-69	4	GOOD
50-59	2	AVERAGE
0-49	3	RE-APPEAR

Course Outcome Assessment Percentage		
CATEGORY	PERCENTAGE	STATUS
80-89	17.00	EXCELLENT
75-79	22.00	DISTINCTION
70-74	17.00	VERY GOOD
60-69	17.00	GOOD
50-59	9.00	AVERAGE
0-49	13.00	RE-APPEAR



COURSE OUTCOME ASSESSMENT



PRINCIPAL

Bharath College of Science and Management
Bharath Avenue (Near New Bus Stand),
THANJAVUR - 613 005.



BHARATH COLLEGE OF SCIENCE AND MANAGEMENT
(UGC RECOGNISED 2(f) & 12 (B) INSTITUTION)
AFFILIATED TO BHARATHIDASAN UNIVERSITY -TIRUCHIRAPPALLI
THANJAVUR - 613005

PROGRAM OUTCOME FOR PRACTICAL

PO1	To find this course introduces to the methods of experimental physics.
PO2	An ability will be given on laboratory techniques such as accuracy of measurements& Data analysis.
PO3	To calculate basic experimental apparatus common to the study of physical phenomena.
PO4	To measure the interrelations between theory and observation the role of systematic and random experimental errors and methods used to analyze experimental uncertainty and compare experiment with theory.
PO5	To communicate scientific ideas effectively both orally and in writing.

16SCCPH1P-MAJOR PRACTICAL-I
COURSE OUTCOME

CO1	To find the young's modulus of materials.
CO2	To determine the heat capacities of liquids and solids.
CO3	To calculate viscosity and surface tension of liquids from measurements.
CO4	To measure simple electrical and magnetic quantities such as voltage, current, resistance, earth's magnetic field.
CO5	To realize the formation of spectrum with prism and grating.



16SCCPH2P-MAJOR PRACTICAL-II

COURSE OUTCOME

CO1	To analyse the spectral lines using prism.
CO2	To convert the galvanometer into millimetre and millivolt meter and calibrate.
CO3	To determine capacitances and inductances using various bridge circuits.
CO4	To find wavelength of monochromatic light by forming Newton's rings.
CO5	To determine the pH, solubility and density of precursor solutions.

RCCSPH3P-MAJOR PRACTICAL-III

COURSE OUTCOME

CO1	To find the refractive index value.
CO2	To determine the value of M, EMF, Thermistor and Inductance.
CO3	To determine the series and parallel resonance
CO4	To construction and verification Logic gates
CO5	To construction and verification of OP-amp

RCCSPH4P-MAJOR PRACTICAL-IV

COURSE OUTCOME

CO1	To find the Wavelength, Dispersive power and Cauchy's constant
CO2	To determine the value of M and H, voltmeter calibration
CO3	To construction and characteristics amplifier, oscillator
CO4	To write ALP of arithmetic of intel 8085
CO5	To write ALP of Conversion of intel 8085



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Attainment of program outcomes and course outcomes
Course Outcome-Programme Outcome Mapping

Department of Physics
PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH1-PROPERTIES OF MATTER AND ACOUSTICS
COURSE OUTCOME

CO1	Study the different modulus of elasticity and determine the rigidity modulus and moment of inertia.
CO2	To understand the expression for bending moment and determination of young's modulus.
CO3	To understand the experimental study of surface tension and variation of surface tension.
CO4	To understand the fundamental process of Newton's law and recognizing Mayer's formula to this problems.
CO5	To study the factors affecting the acoustics of building.



PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	2	2	0	1	0
CO2	1	2	0	2	0
CO3	0	2	2	2	2
CO4	3	1	1	2	2
CO5	1	2	2	0	1
Average	1.4	1.8	1	1.4	1

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB18S439596	AARTHI.R	4	4	4	4	2	18	74
2	CB18S439597	ABISHEK.J	3	5	5	5	5	23	92
3	CB18S439598	AKILA.V	3	3	3	3	4	16	64
4	CB18S439599	BHARATHIRAJA.P	3	3	3	3	3	15	60
5	CB18S439600	DHARANI.V	4	3	3	5	4	19	76
6	CB18S439602	NANDHINI.P	4	4	4	4	4	20	80
7	CB18S439603	NIVETHA.D	5	5	5	3	2	20	80
8	CB18S439604	PRAVEENA.J	5	4	4	2	2	17	68
9	CB18S439605	VIGNESH.S	3	3	3	3	3	15	60
10	CB18S439606	VIGNESHKUMAR.M	5	5	4	5	5	24	96
11	CB18S439607	YAZHINI.G	3	5	5	5	5	23	92
Average			3.80	4.00	3.90	3.80	3.70		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.8	75	78.8	92.71
CO2	4	75	79	92.94
CO3	3.9	75	78.9	92.82
CO4	3.8	75	78.8	92.71
CO5	3.7	75	78.7	92.59

COURSE ATTAINMENT IN B.SC PHYSICS

COURSE ATTAINMENT IN B.SC PHYSICS

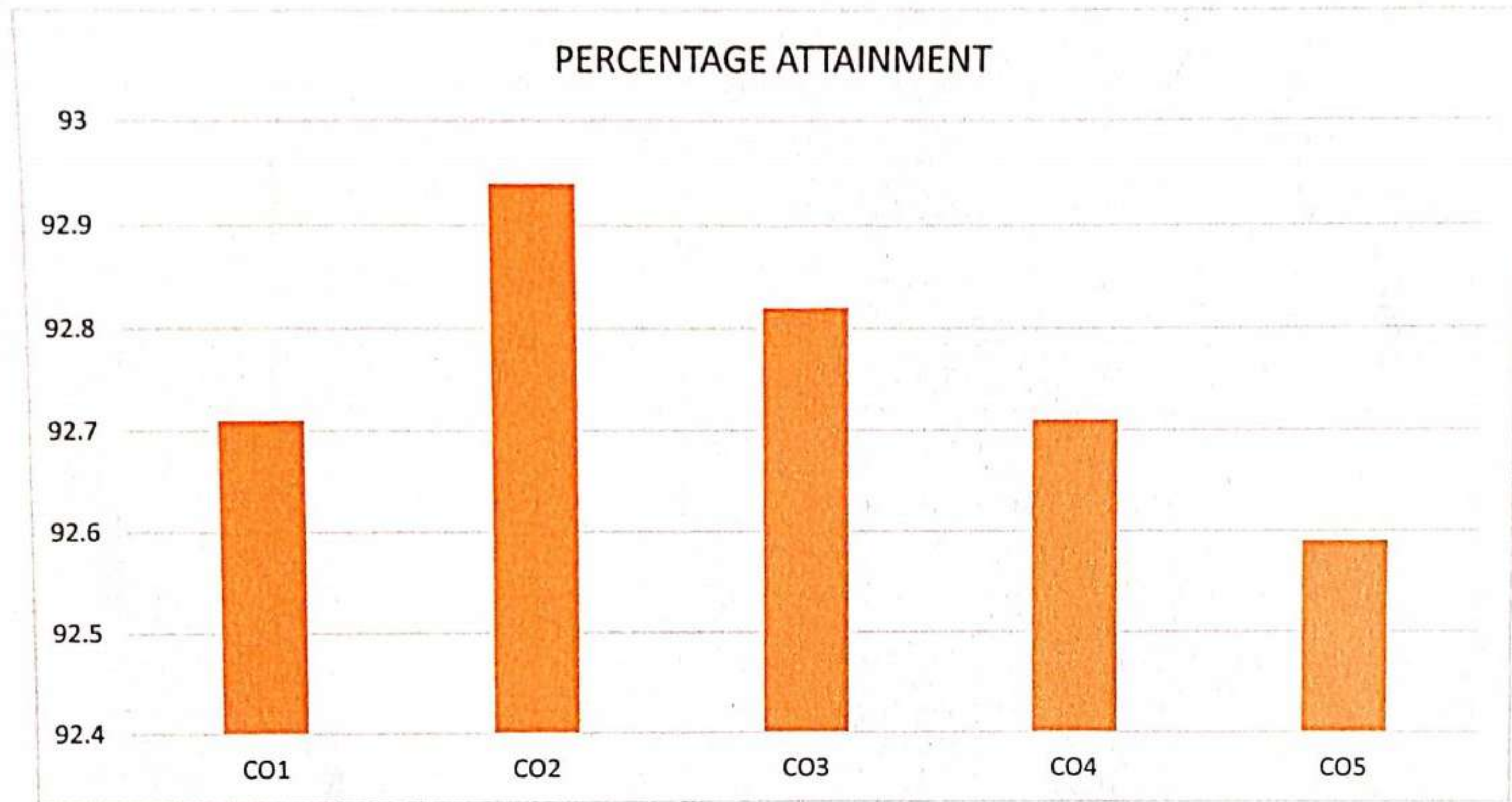
SUBJECT NAME : PROPERTIES OF MATTER & ACOUSTICS

SUBJECT CODE : 16SCCPH1

NO OF STUDENTS:11

COURSE OUTCOME	PERCENTAGE ATTAINMENT
CO1	92.71
CO2	92.94
CO3	92.82
CO4	92.71
CO5	92.59





COURSE ATTAINMENT IN B.SC PHYSICS

SUBJECT NAME : PROPERTIES OF MATTER & ACOUSTICS

SUBJECT CODE : 16SCCPH1

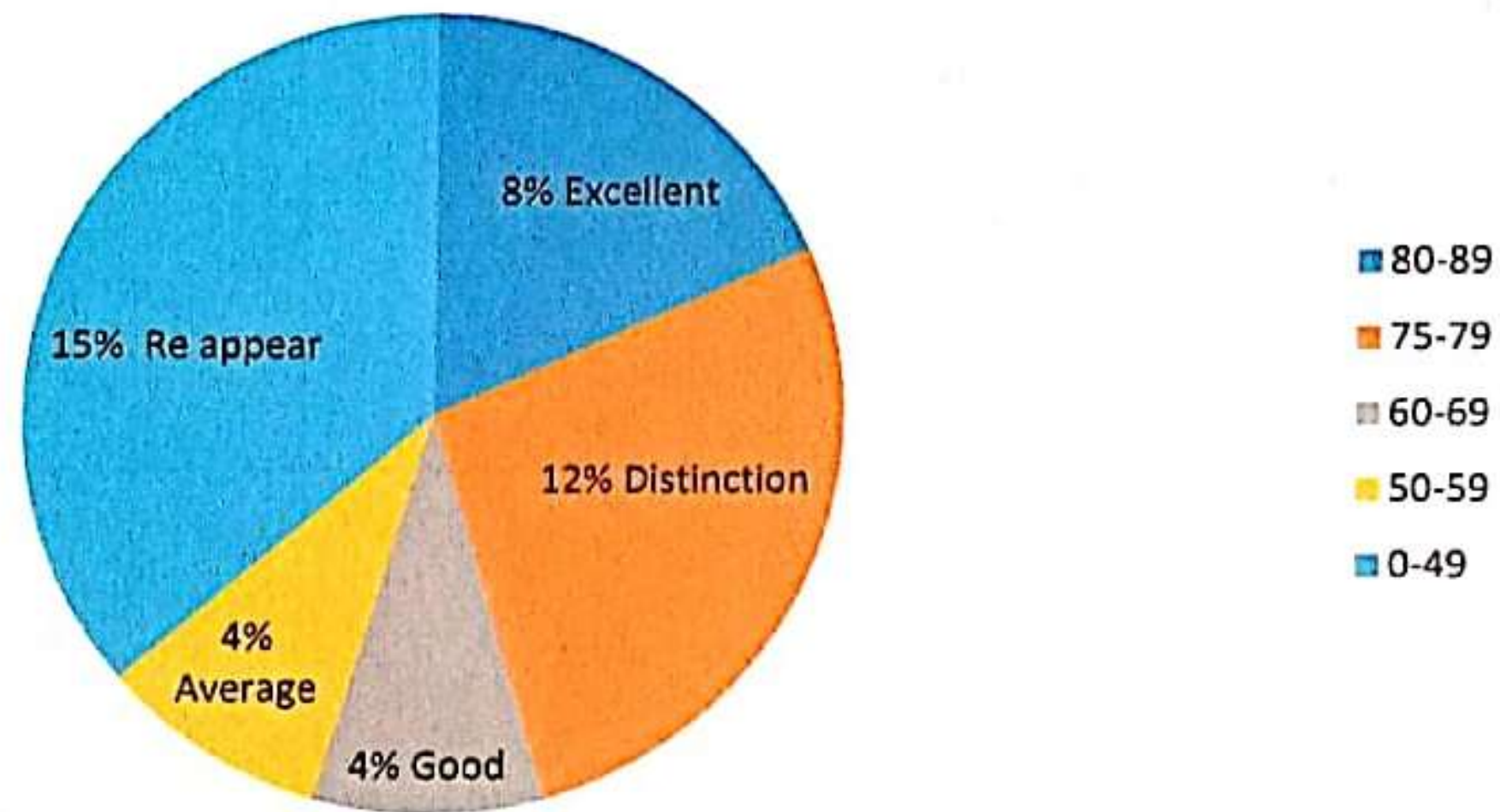
NO OF STUDENTS: 11

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstaning
80-89	2	Excellent
75-79	3	Distinction
70-74	0	Very Good
60-69	1	Good
50-59	1	Average
0-49	4	Reappear

Course Outcome Assessment		
CATEGORY	PERCENTAGE	STATUS
80-89	7.69	Excellent
75-79	11.54	Distinction
60-69	3.85	Good
50-59	3.85	Average
0-49	15.38	Reappear



COURSE OUTCOME ASSESSMENT



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PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH2 - MECHANICS

COURSE OUTCOME

CO1	To understand the fundamentals laws of impact, particle projected in any direction & concept of Direct & oblique impact.
CO2	To understand the expression for normal acceleration & variation of g with altitude, latitude and depth.
CO3	To understand the determine the Newton's law of gravitation and analysis of gravitational potential and field.
CO4	To understand laws of friction, fundamental process of moment of inertia recognizing Kater's pendulum.
CO5	The course foundation of centre of gravity in accordance with atmospheric pressure.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	3	2	0	1	0
CO2	3	3	0	2	0
CO3	2	2	2	3	2
CO4	0	2	3	3	3
CO5	2	3	3	0	2
Average	2	2.4	1.6	1.8	1.4

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Name	Register No	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	R.AARTHI	CB18S439596	4	4	4	4	4	20	80
2	ABISHEK.J	CB18S439597	5	5	5	5	4	23	92
3	AKILA.V	CB18S439598	5	5	4	3	2	19	76
4	BHARATHIRAJA.P	CB18S439599	2	2	2	3	3	12	48
5	DHARANI.V	CB18S439600	3	5	3	4	4	19	76
6	NANDHINI.P	CB18S439602	4	4	5	4	4	21	84
7	NIVETHA.D	CB18S439603	5	4	4	4	4	21	84
8	PRAVEENA.J	CB18S439604	4	4	4	4	3	19	76
9	VIGNESH.S	CB18S439605	4	4	4	4	3	19	76
10	VIGNESHKUMAR.M	CB18S439606	5	5	5	5	4	24	96
11	YAZHINI.G	CB18S439607	4	5	5	4	5	23	92
Average			4.10	4.30	4.10	4.00	3.6		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.1	75	79.1	93.06
CO2	4.3	75	79.3	93.29
CO3	4.1	75	79.1	93.06
CO4	4	75	79	92.94
CO5	3.6	75	78.6	92.47

COURSE ATTAINMENT FOR B.Sc Physics

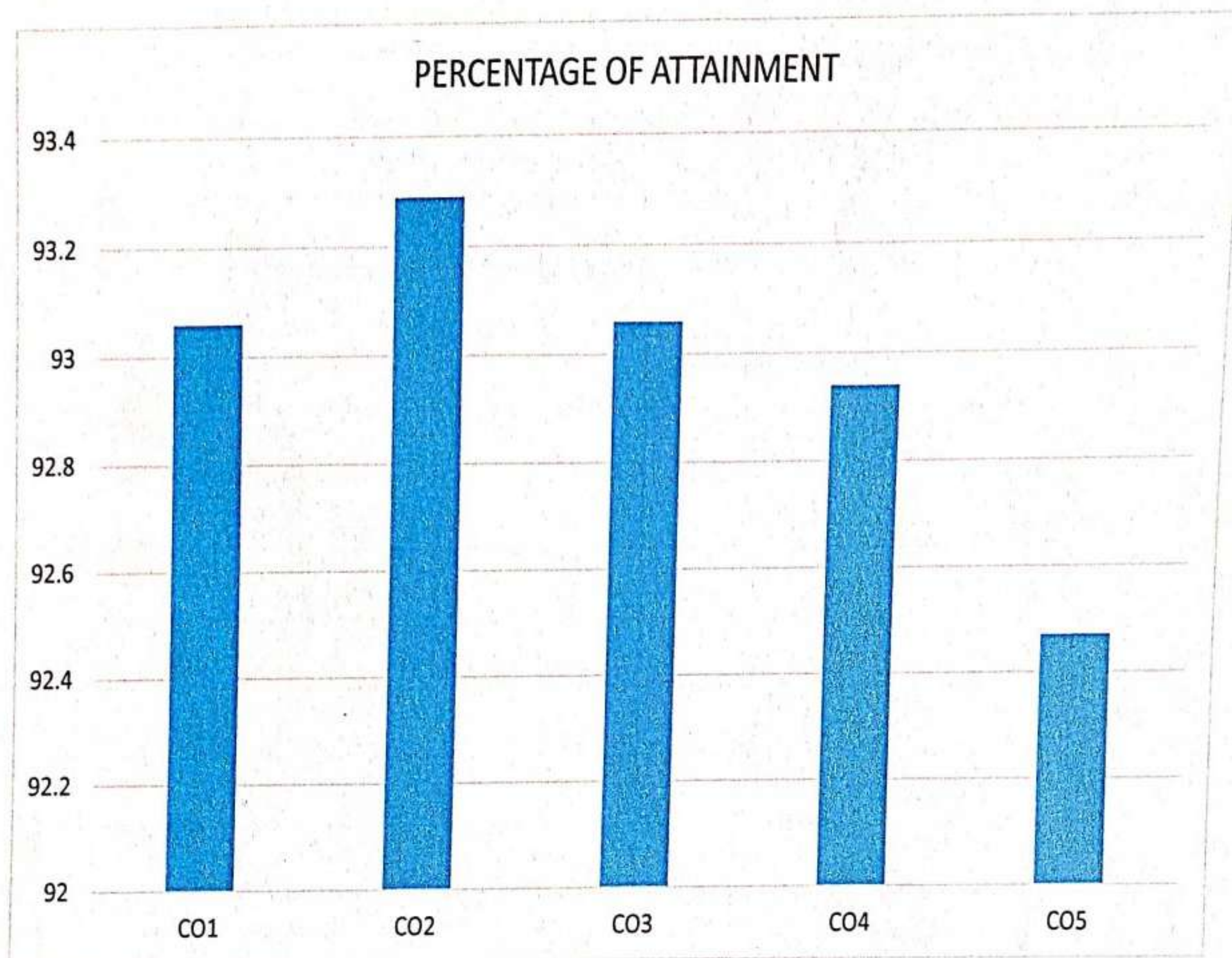
SUBJECT NAME: MECHANICS

SUBJECT CODE :16SCCPH2

NO.OF STUDENTS :11

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	93.06
CO2	93.29
CO3	93.06
CO4	92.94
CO5	92.47



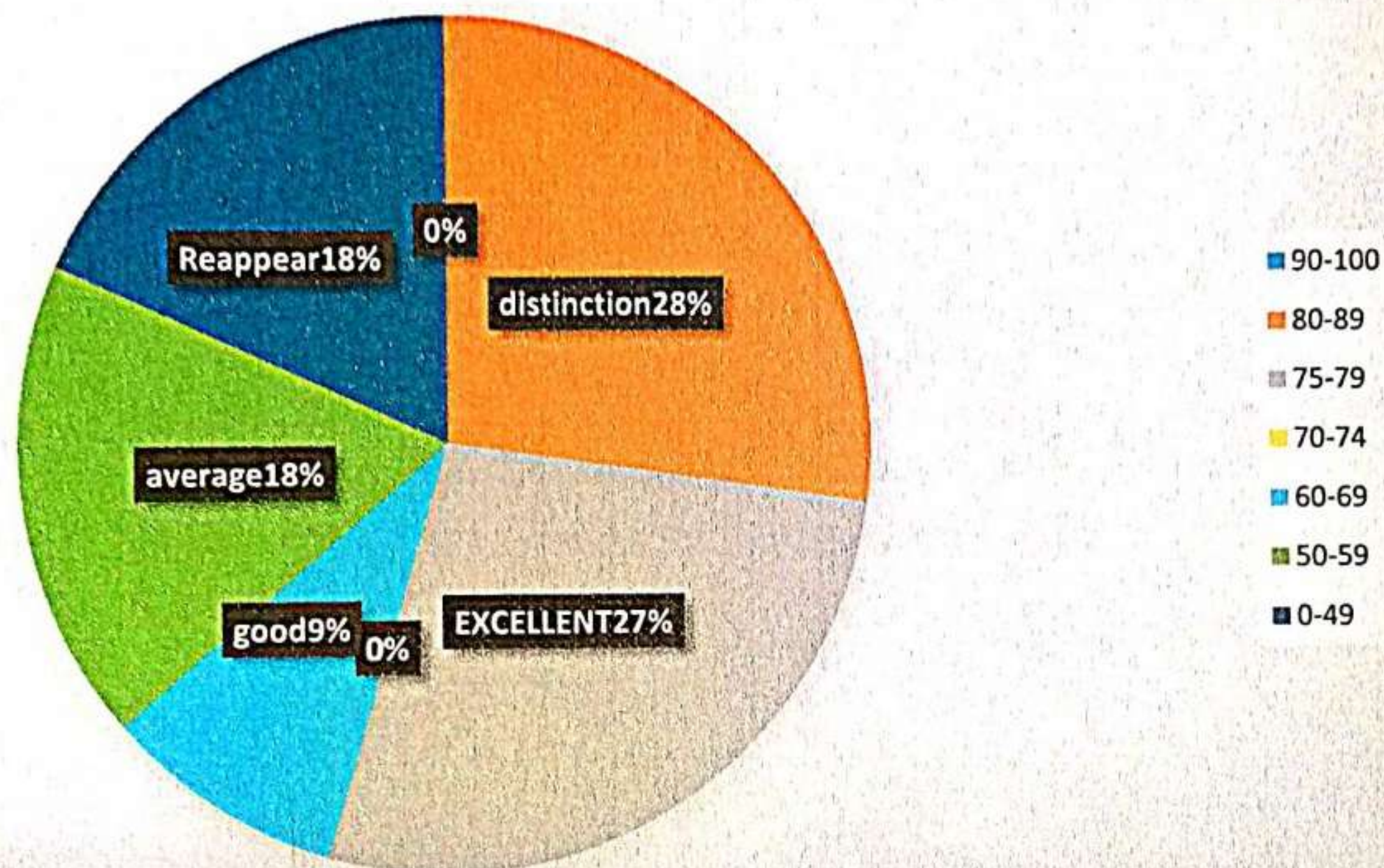


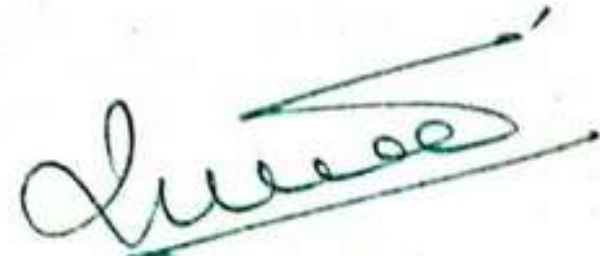
COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	3	EXCELLENT
75-79	3	DISTINCTION
70-74	0	VERY GOOD
60-69	1	GOOD
50-59	2	AVERAGE
0-49	2	RE-APPEAR

COURSE OUTCOME ASSESSMENT		
CATEGORY	PERCENTAGE	STATUS
80-89	27.27	EXCELLENT
75-79	27.27	DISTINCTION
60-69	9.09	GOOD
50-59	18.18	AVERAGE
0-49	18.18	RE-APPEAR



course outcome assessment




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16SCCPH3- Thermal physics

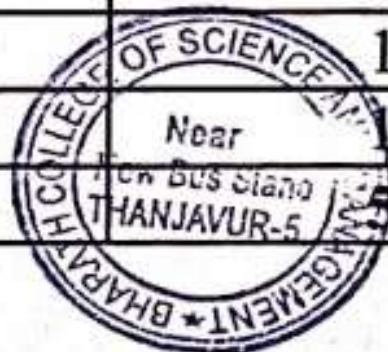
COURSE OUTCOME

CO1	Learn fundamental laws, specific heat of matter.
CO2	Known about Laws of heat, properties of metals and uses conclusion of heat.
CO3	Learn Laws of Radiation, Experiment, conclusion of temperature of sun, uses of solar energy.
CO4	Principles of law Temperature, experimental, application of law temperature, cooling energy
CO5	Laws of Thermodynamics, change of reversible and irreversible processes, Thermodynamical relations.

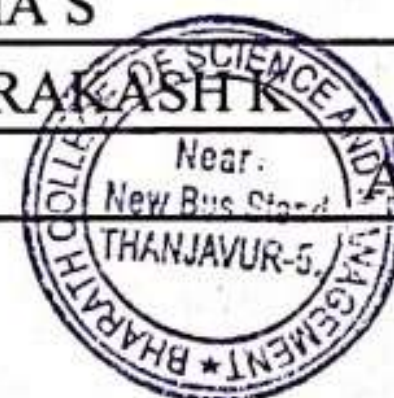
Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH3 Thermal physics	CO1	0	2	0	0	2
	CO2	2	2	0	1	1
	CO3	0	0	1	2	1
	CO4	1	1	0	1	2
	CO5	0	1	1	0	0
	Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15		5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB17S 436221	ABINASH S	3	3	3	3	2	14	56
2	CB17S 436223	ASWATHI B	4	4	5	5	5	23	92
3	CB17S 436224	BHARATHKUMAR R	3	3	3	3	3	15	60
4	CB17S 436225	CHANDRU P	3	4	4	4	4	19	76
5	CB17S 436226	DINESH K	2	2	2	2	3	11	44
6	CB17S 436227	GUNAL V	2	2	2	2	2	10	40
7	CB17S 436228	GUNASEKARAN A	2	2	2	2	2	10	40
8	CB17S 436229	HARIPRASATH S	2	2	2	3	3	12	48
9	CB17S 436230	KAVIYARASAN K	3	3	2	2	2	12	48
10	CB17S 436231	KEERTHANA B	5	5	5	4	4	23	92
11	CB17S 436232	MAHADEV R	4	4	4	4	4	16	64
12	CB17S 436233	MAHESWARI D	4	5	5	5	5	24	96
13	CB17S 436234	MANISHA E	3	3	4	3	3	16	64
14	CB17S 436235	MUTHUKUMAR R	2	2	2	2	2	10	40
15	CB17S 436236	NAVEENKUMAR M	2	2	3	2	2	11	44
16	CB17S 436237	PANDITHURAI S	2	3	3	2	2	12	48
17	CB17S 436238	RAJKUMAR R	2	2	2	2	2	10	40
18	CB17S 436239	RENGARAJ R	2	2	2	2	2	10	40
19	CB17S 436240	REYON FRANCES B	4	4	4	3	4	19	76
20	CB17S 436241	ROSHINI BEGUM M	5	5	5	4	4	23	92
21	CB17S 436242	SHALINI K	4	4	5	5	5	23	92
22	CB17S 436243	SORNAMUHI G	3	3	3	3	3	15	60
23	CB17S 436244	SUDHAKAR S	2	2	3	3	3	13	52
24	CB17S 436245	VIJAYKUMAR T	2	2	2	2	2	10	40
25	CB17S 436246	VINODHA S	5	4	4	5	5	23	92
26	CB17S 436247	VISNUPRAKASH K	2	2	2	3	4	13	52
Average			2.96	3.04	3.19	3.08	3.15		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	2.96	75	77.96	91.72
CO2	3.04	75	78.04	91.81
CO3	3.19	75	78.19	91.99
CO4	3.08	75	78.08	91.86
CO5	3.15	75	78.15	91.94

Course Attainment for B.Sc Physics

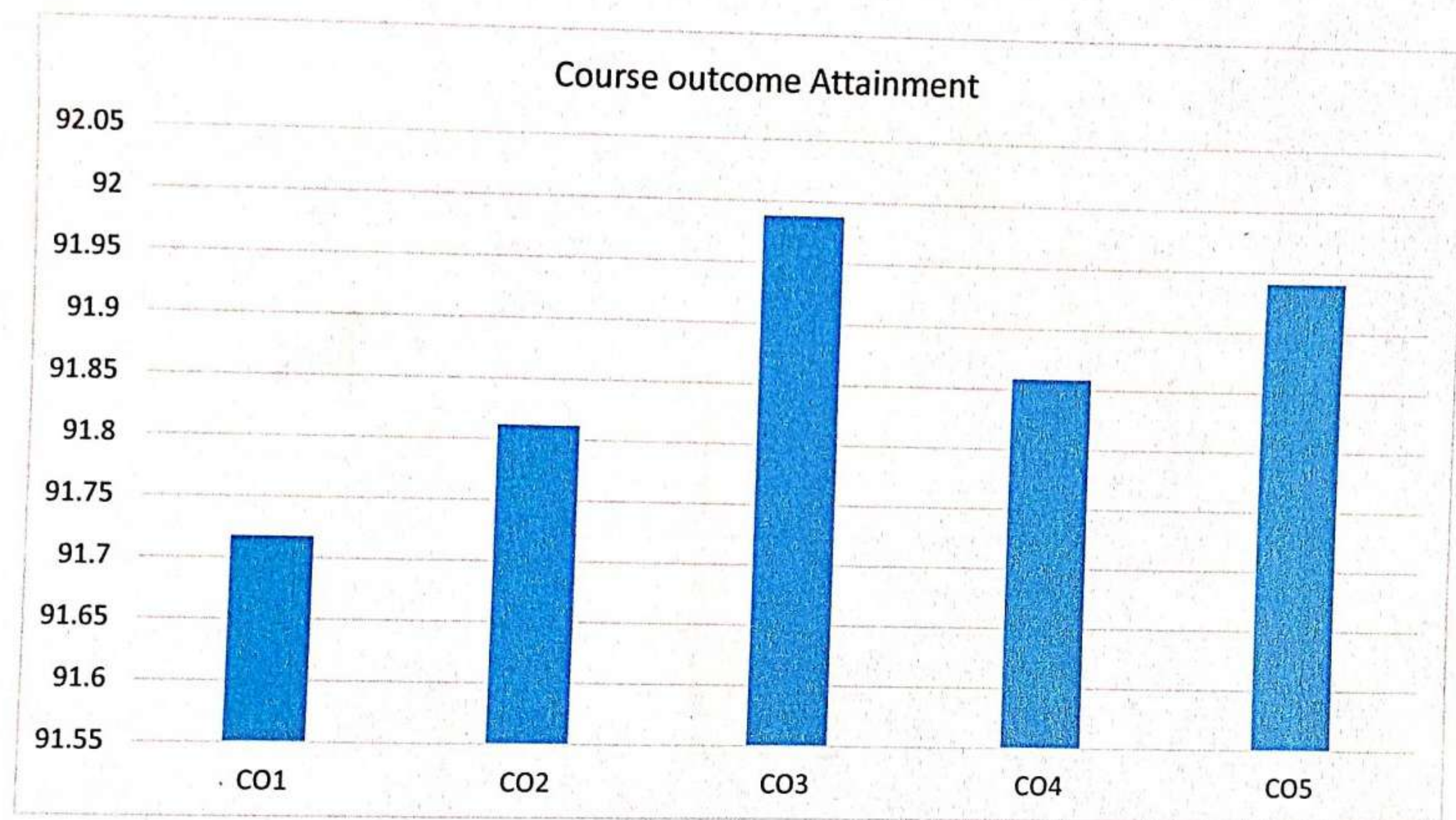
Subject Name: Thermal Physics

Subject Code: 16SCCPH3

Number of Students: 26

Course Outcome	Percentage of Attainment
CO1	91.72
CO2	91.81
CO3	91.99
CO4	91.86
CO5	91.94





Course Attainment for B.Sc Physics

Subject Name: Thermal Physics

Subject Code: 16SCCPH3

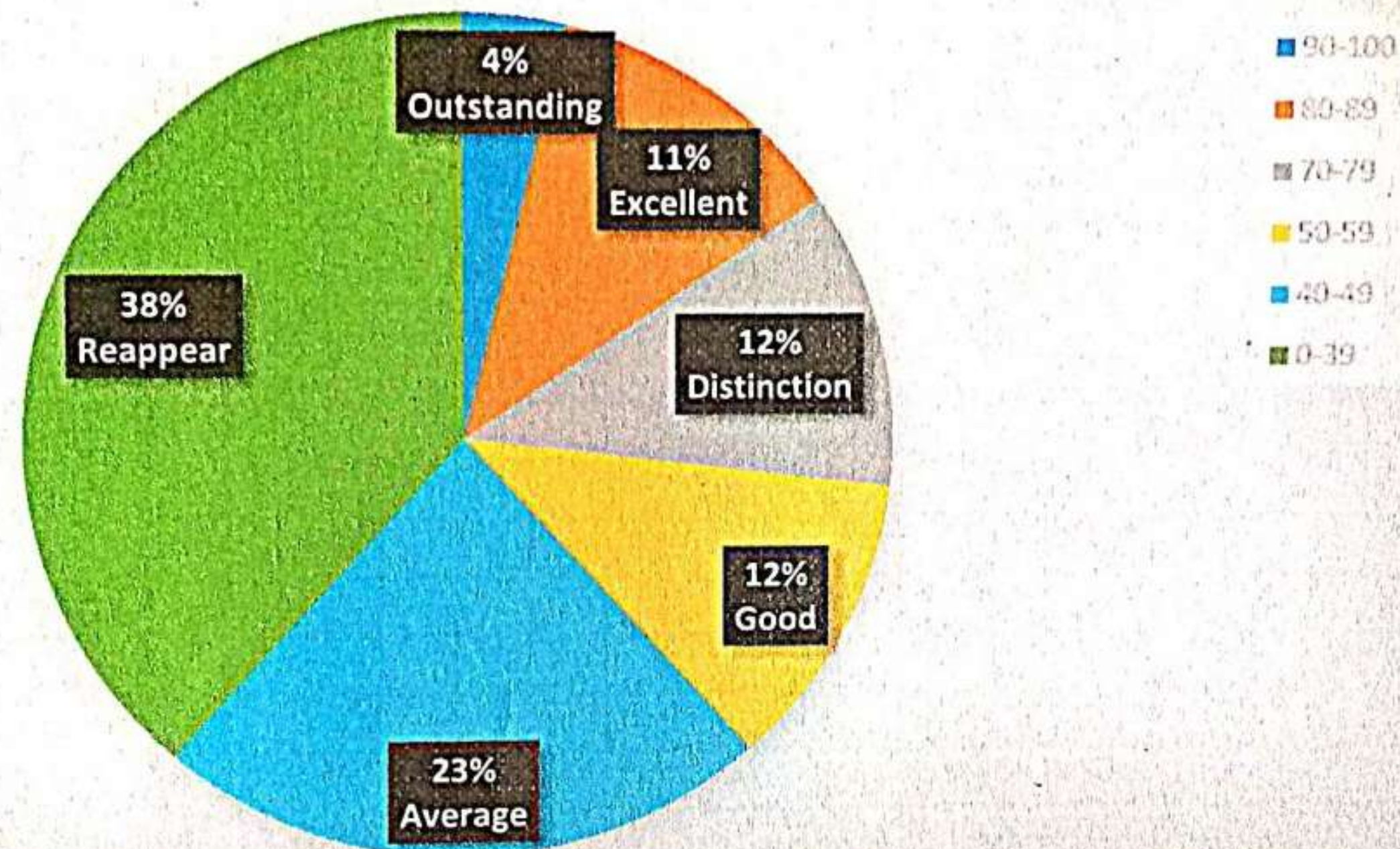
Number of Students:26

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	1	Outstaning
80-89	3	Excellent
70-79	3	Distinction
60-69	0	Very Good
50-59	3	Good
40-49	6	Average
0-39	10	Reappear

Course Outcome Assessment		
Category (Marks)	Percentage	Status
90-100	3.85	Outstanding
80-89	11.54	Excellent
70-79	11.54	Distinction
50-59	11.54	Good
40-49	23.08	Average
0-39	38.46	Reappear



Course Outcome Assessment



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16SCCPH4- ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM
COURSE OUTCOME

CO1	Coulombs law, Gauss's Law, Principle of Capacity and Loss of Energy Calculation
CO2	Critical Law,Kirchhoff's Law,Calibration of Ammeter and Voltmeter
CO3	Laws of Electromagnetic induction,Self and Mutual induction Decay of Current in a circuit
CO4	Series Circuit,Q-factor Calculation, Power in AC Circuits and Ueses of Transformers
CO5	Propertites of magnetic matrial ,Energy loss due to magnetic.

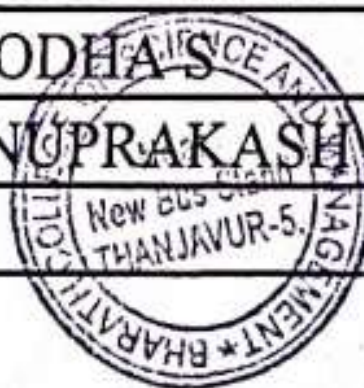
Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH4- ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM	CO1	2	0	1	1	0
	CO2	2	1	1	1	1
	CO3	1	0	0	0	1
	CO4	1	1	1	0	2
	CO5	0	2	0	1	1
	Average	1.2	0.8	0.6	0.6	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total		5	5



S.No	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB17S 436221	ABINASH S	4	3	3	3	3	16	64
2	CB17S 436223	ASWATHI B	4	4	4	4	4	20	80
3	CB17S 436224	BHARATHKUMAR R	4	4	4	4	4	20	80
4	CB17S 436225	CHANDRU P	3	4	4	4	4	19	76
5	CB17S 436226	DINESH K	3	3	3	3	4	16	64
6	CB17S 436227	GUNAL V	3	3	4	2	3	15	60
7	CB17S 436228	GUNASEKARAN A	4	3	4	3	2	16	64
8	CB17S 436229	HARIPRASATH S	3	3	3	4	2	15	60
9	CB17S 436230	KAVIYARASAN K	3	3	3	3	3	15	60
10	CB17S 436231	KEERTHANA B	5	5	5	4	4	23	92
11	CB17S 436232	MAHADEV R	4	4	3	3	3	17	68
12	CB17S 436233	MAHESWARI D	4	4	4	5	3	20	80
13	CB17S 436234	MANISHA E	4	4	5	3	4	20	80
14	CB17S 436235	MUTHUKUMAR R	3	3	3	4	4	17	68
15	CB17S 436236	NAVEENKUMAR M	4	4	3	3	3	17	68
16	CB17S 436237	PANDITHURAI S	4	3	3	3	3	16	64
17	CB17S 436238	RAJKUMAR R	3	3	3	3	3	15	60
18	CB17S 436239	RENGARAJ R	4	3	3	3	3	16	64
19	CB17S 436240	REYON FRANCES B	5	5	4	4	4	22	88
20	CB17S 436241	ROSHINI BEGUM M	4	4	4	4	4	20	80
21	CB17S 436242	SHALINI K	5	5	5	5	5	25	100
22	CB17S 436243	SORNAMUHI G	4	4	4	3	4	19	76
23	CB17S 436244	SUDHAKAR S	3	4	4	4	4	19	76
24	CB17S 436245	VIJAYKUMAR T	3	3	3	3	4	16	64
25	CB17S 436246	VINODHA S	5	5	4	4	4	23	92
26	CB17S 436247	VISNUPRAKASH K	3	3	4	4	4	18	72
		Average	3.77	3.69	3.69	3.54	3.54		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.77	75	78.77	92.67
CO2	3.69	75	78.69	92.58
CO3	3.69	75	78.69	92.58
CO4	3.54	75	78.54	92.40
CO5	3.54	75	78.54	92.40

Course Attainment for B.Sc Physics

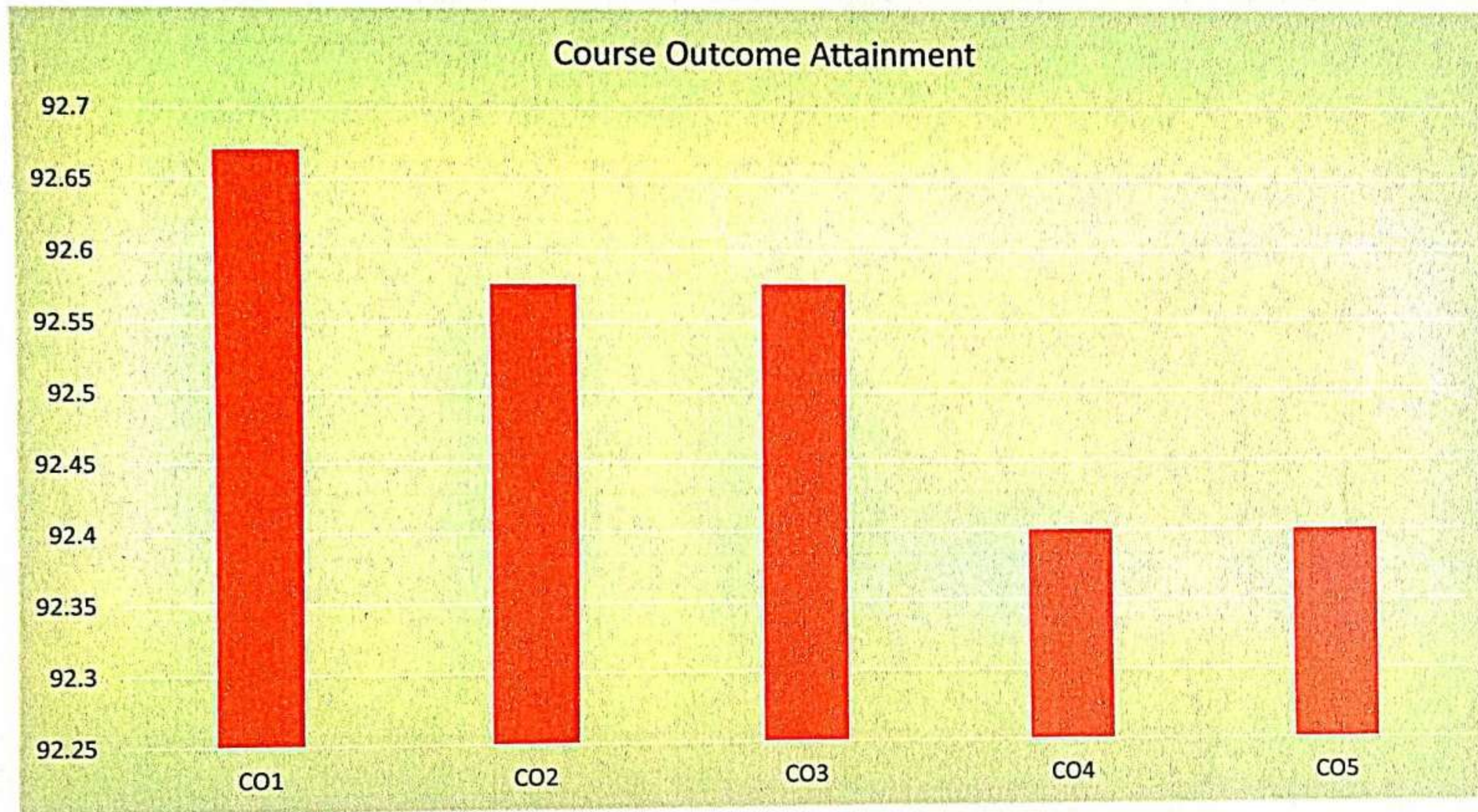
Subject Name: ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM

Subject Code: 16SCCPH4

Number of Students:26

Course Outcome	Percentage of Attainment
CO1	92.67
CO2	92.58
CO3	92.58
CO4	92.40
CO5	92.40





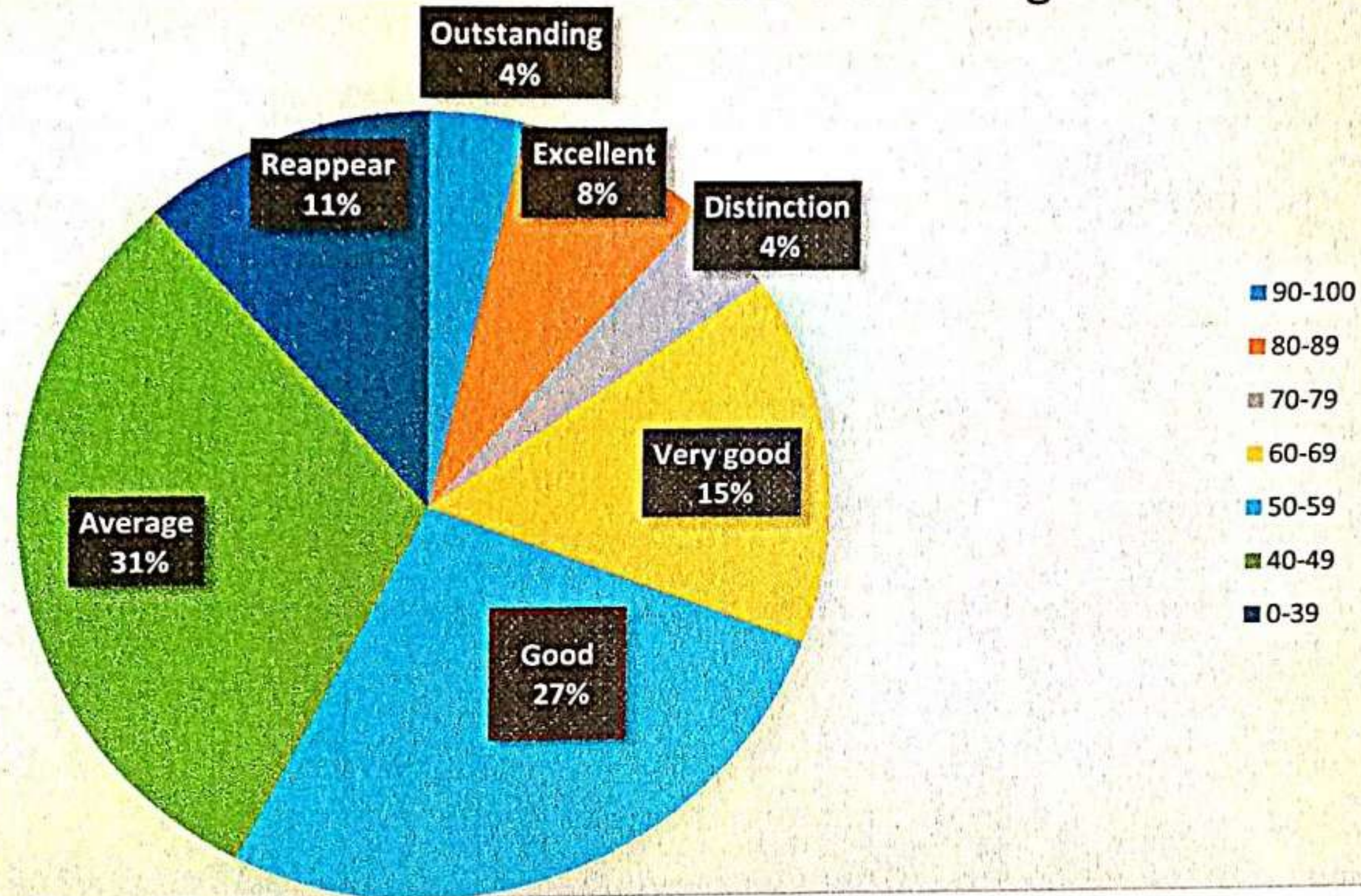
Course Attainment for B.Sc Physics

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	1	Outstanding
80-89	2	Excellent
70-79	1	Distinction
60-69	4	Very Good
50-59	7	Good
40-49	8	Average
0-39	3	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	3.85	Outstanding
80-89	7.69	Excellent
70-79	3.85	Distinction
60-69	15.38	Very Good
50-59	26.92	Good
40-49	30.77	Average
0-39	11.54	Reappear



Course Outcome Assessment Percentage



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16SCCPH5 - Optics
COURSE OUTCOME

CO1	Study different types of Spherical aberration and Chromatic aberration in a lens
CO2	Fundamental of Stationary waves and its applications of interference
CO3	To study differentiate Fresnel's diffraction and Fraunhofer diffraction.
CO4	To understand fundamental process of double image polarizing prism and experimental of Laurent's half shade polarimeter
CO5	To understand various types of Eyepieces and accordance with microscope and Telescope.



PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	2	0	1	1
CO2	2	2	0	2	1
CO3	2	2	1	1	2
CO4	2	3	2	3	2
CO5	3	3	0	2	2
Average	2	2.4	0.6	1.8	1.6

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



18	PAVITHRA S	CB16S 432645	4	3	3	4	4	18	72
19	PRAKASH S	CB16S 432646	2	2	2	2	2	10	40
20	RAGAVAN S R	CB16S 432648	2	3	2	2	2	11	44
21	RAMYA B	CB16S 432649	3	3	3	3	4	16	64
22	SANDHIYA C	CB16S 432651	2	2	2	2	2	10	40
23	SHOLOM RICH J	CB16S 432653	3	3	3	2	3	14	56
24	SINDHU BAIRAVI S	CB16S 432654	2	3	3	4	3	15	60
25	SUNDARAM C	CB16S 432655	2	3	2	3	2	12	48
26	THANUSIYA A	CB16S 432656	3	4	3	4	4	18	72
27	THINAGARAN K	CB16S 432657	2	2	2	2	2	10	40
28	VARSHADEVI D	CB16S 432658	3	2	2	3	4	14	56
29	VASANTH J	CB16S 432659	2	2	2	2	2	10	40
30	VEMBARASI K	CB16S 432660	4	4	4	3	3	18	72
31	VIGNESH R	CB16S 432661	2	2	2	2	2	10	40
32	VIJAY V	CB16S 432662	2	2	2	2	2	10	40
33	YOGALAKSHMI M	CB16S 432663	3	3	3	3	3	15	60
Average			2.97	2.94	2.79	2.94	2.91		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.03	75	78.03	91.80
CO2	3	75	78	91.76
CO3	2.82	75	77.82	91.55
CO4	2.97	75	77.97	91.73
CO5	2.97	75	77.97	91.73

COURSE ATTAINMENT FOR B.Sc Physics

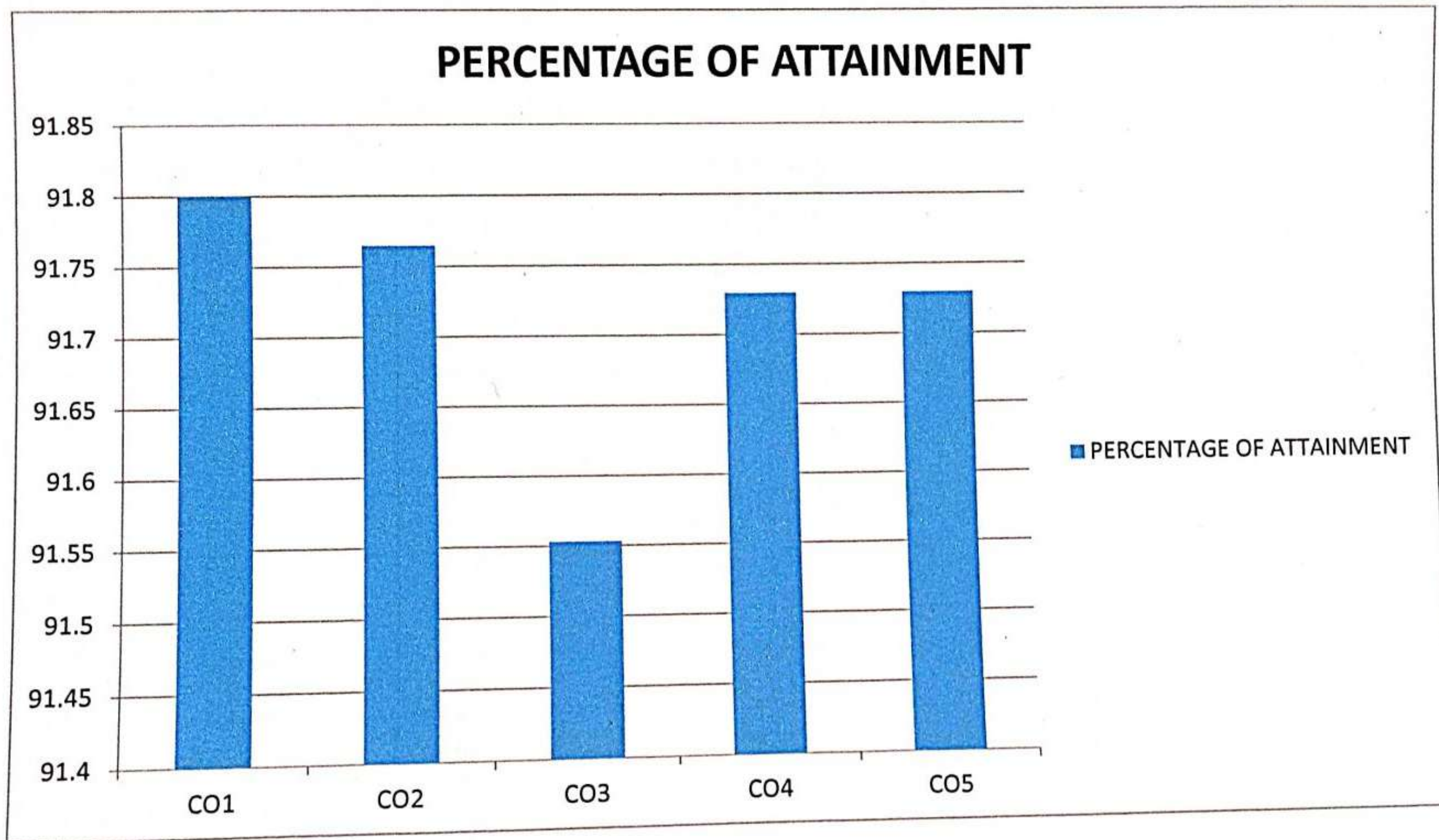
SUBJECT NAME: Optics

SUBJECT CODE : 16SCCPH5

NO.OF STUDENTS : 33

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	91.80
CO2	91.76
CO3	91.55
CO4	91.73
CO5	91.73





COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME : Optics

SUBJECT CODE : 16SCCPH5

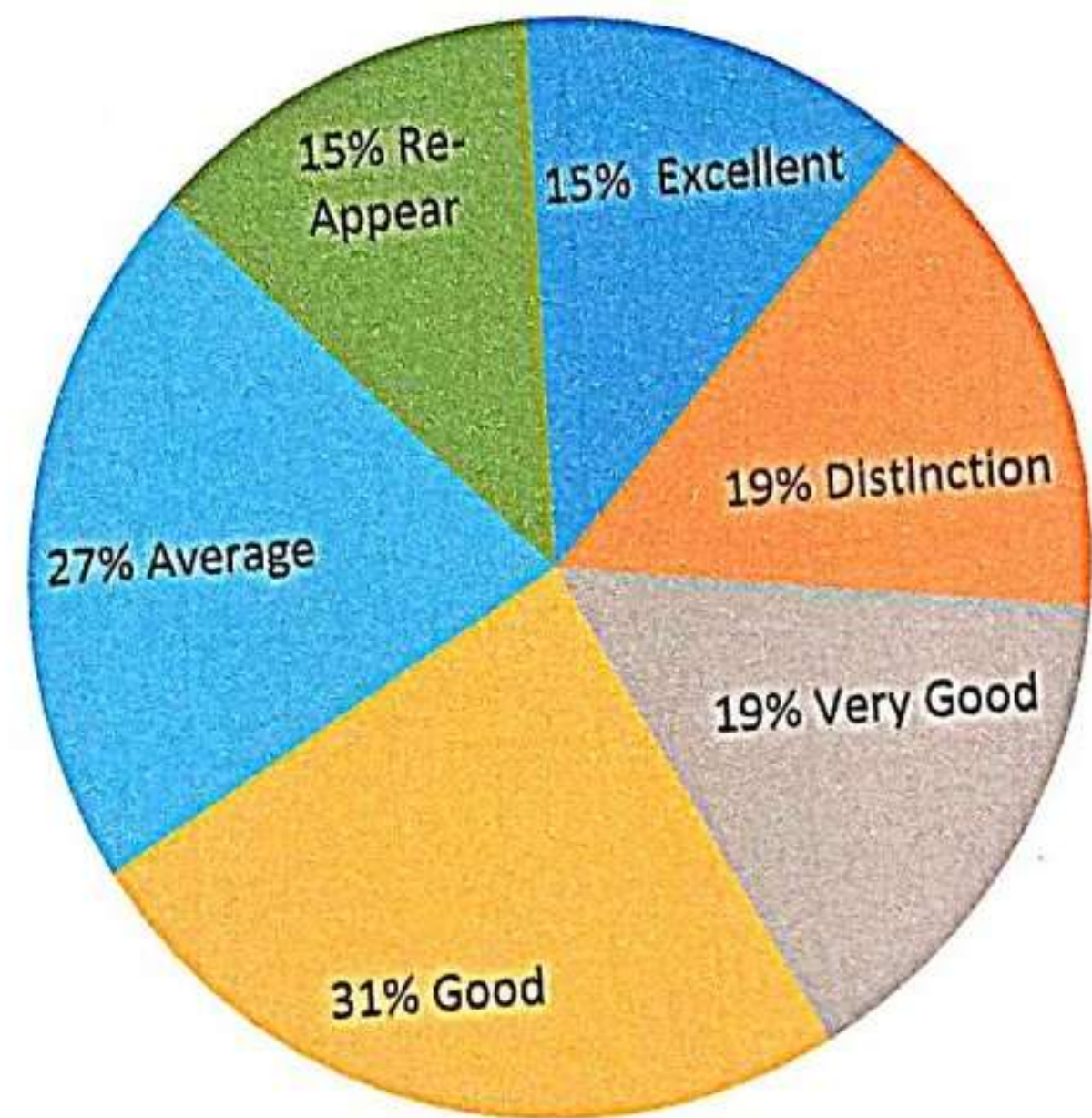
NO.OF STUDENTS : 33

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	4	EXCELLENT
75-79	5	DISTINCTION
70-74	5	VERY GOOD
60-69	8	GOOD
50-59	7	AVERAGE
0-49	4	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	15.38	EXCELLENT
75-79	19.23	DISTINCTION
70-74	19.23	VERY GOOD
60-69	30.77	GOOD
50-59	26.92	AVERAGE
0-49	15.38	RE-APPEAR



COURSE OUTCOME ASSESSMENT



- 80-89
- 75-79
- 70-74
- 60-69
- 50-59
- 0-49



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AFFILIATED TO BHARATHIDASAN UNIVERSITY -TIRUCHIRAPPALLI
THANJAVUR - 613005

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH6 - Atomic and Molecular physics

COURSE OUTCOME

CO1	Study properties of rays, production, charge calculation by experimental.
CO2	Fundamental of atom, structure, principles and effect of experiments.
CO3	Production and detection of x-rays, Laws of x-rays and characteristics of x-rays.
CO4	Properties of metals, photo electric effect, experimental arrangement and verification, applications.
CO5	LASER properties, concepts, experimental and applications.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	1	2	0	1	1
CO2	3	3	0	2	1
CO3	2	1	1	1	2
CO4	2	3	2	3	3
CO5	3	3	0	2	2
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.No	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB16S 432626	AARTHI	4	3	3	3	3	16	64
2	CB16S 432627	AKALYA V	3	4	3	3	3	16	64
3	CB16S 432628	ARAVINDHAN S	3	2	2	2	2	11	44
4	CB16S 432629	ARUNKUMAR D	3	3	4	3	3	16	64
5	CB16S 432630	BRINDHA K	3	3	3	4	3	16	64
6	CB16S 432633	FATHIMABEVI M	5	4	2	4	4	19	76
7	CB16S 432634	GAYATHRI M	4	4	5	4	4	21	84
8	CB16S 432635	GAYATHIRI N	3	3	3	3	3	15	60
9	CB16S 432636	GOKULAKRISHNAN V	4	5	4	4	4	21	84
10	CB16S 432637	GOPALAKRISHNAN T	3	3	2	3	2	13	52
11	CB16S 432638	HARIHARAN P	3	2	3	3	3	14	56
12	CB16S 432639	KOMALAVALLI K	4	3	4	3	4	18	72
13	CB16S 432640	MATHAVAN S	3	2	2	2	2	11	44
14	CB16S 432641	MEGALA H	3	4	3	4	3	17	68
15	CB16S 432642	MOUNIKA V	4	4	4	4	4	20	80
16	CB16S 432643	MURALI M		2	2	2	2	10	40



17	CB16S 432644	NANDHINI V	3	3	3	3
18	CB16S 432645	PAVITHRA S	4	3	3	4
19	CB16S 432646	PRAKASH S	2	2	2	2
20	CB16S 432648	RAGAVAN S R	2	3	2	2
21	CB16S 432649	RAMYA B	3	3	3	3
22	CB16S 432651	SANDHIYA C	2	2	2	2
23	CB16S 432653	SHOLOM RICH J	3	3	3	2
24	CB16S 432654	SINDHU BAIRAVI S	3	3	3	4
25	CB16S 432655	SUNDARAM C	2	3	2	3
26	CB16S 432656	THANUSIYA A	4	4	3	4
27	CB16S 432657	THINAGARAN K	2	2	2	2
28	CB16S 432658	VARSHADEVI D	3	4	3	4
29	CB16S 432659	VASANTH J	2	3	2	2
30	CB16S 432660	VEMBARASI K	4	3	3	3
31	CB16S 432661	VIGNESH R	3	2	3	2
32	CB16S 432662	VIJAY V	2	2	2	2
33	CB16S 432663	YOGALAKSHMI M	2	3	3	3
Average			3.03	3.00	2.82	2.97



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.03	75	78.03	91.80
CO2	3	75	78	91.76
CO3	2.82	75	77.82	91.55
CO4	2.97	75	77.97	91.73
CO5	2.97	75	77.97	91.73

Course Attainment for B.Sc Physics

Subject Name: Atomic and Molecular Physics

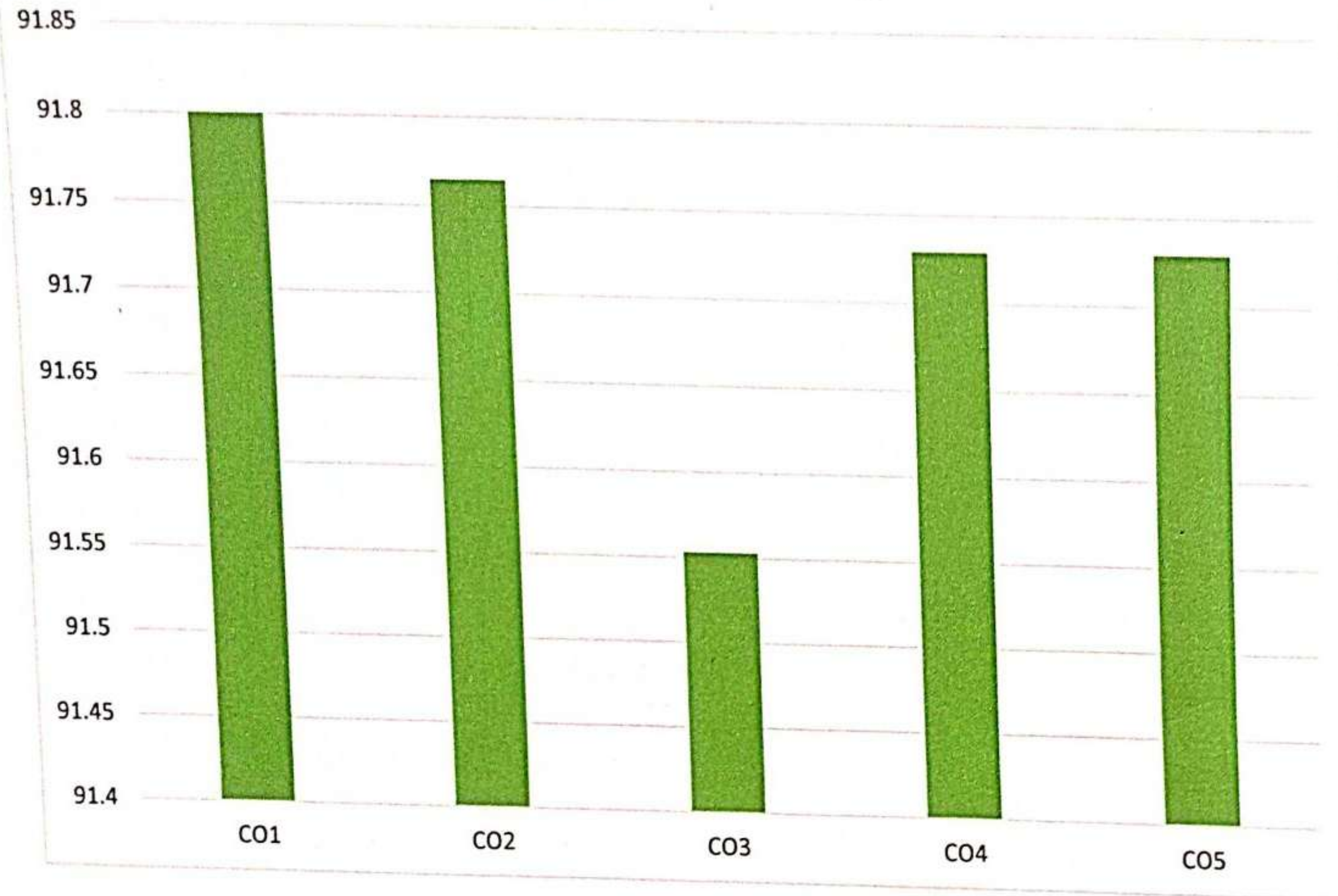
Subject Code: 16SCCPH6

Number of Students: 33

Course Outcome	Percentage of Attainment
CO1	91.80
CO2	91.76
CO3	91.55
CO4	91.73
CO5	91.73



Course Outcome Attainment



Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	0	Distinction
60-69	7	Very Good
50-59	10	Good
40-49	13	Average
0-39	3	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
60-69	21.21	Very Good
50-59	30.30	Good
40-49	39.39	Average
0-39	9.09	Reappear

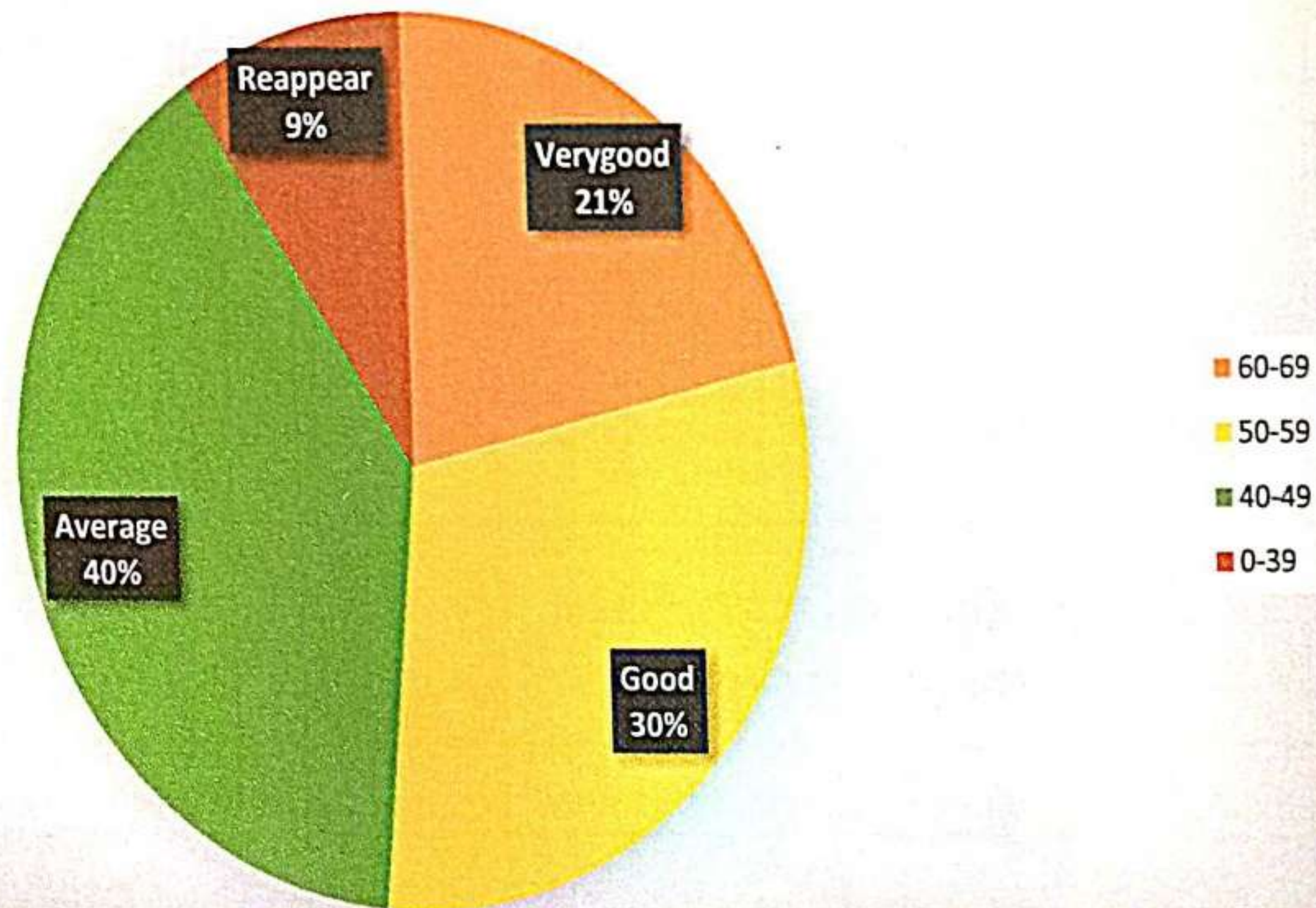


Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	0	Distinction
60-69	7	Very Good
50-59	10	Good
40-49	13	Average
0-39	3	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
60-69	21.21	Very Good
50-59	30.30	Good
40-49	39.39	Average
0-39	9.09	Reappear



Course Outcome Assessment



[Signature]
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THANJAVUR - 613005

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH7 - ELECTRONICS
COURSE OUTCOME

CO1	To understand the features of semiconductor and zener diode and their fundamental concepts
CO2	Design different types of oscillator.
CO3	Understand the working of basic gates.
CO4	Choose flip flop for a particular application.
CO5	Design operational amplifier circuits and to analyse their properties.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	3	3	0	1	2
CO2	1	3	2	2	1
CO3	0	1	1	3	2
CO4	0	1	2	1	3
CO5	0	0	0	2	2
Average	0.8	1.6	1	1.8	2

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB16S 432626	AARTHI	4	3	4	4	3	18	72
2	CB16S 432627	AKALYA V	3	3	4	4	4	18	72
3	CB16S 432628	ARAVINDHAN S	3	4	4	3	3	17	68
4	CB16S 432629	ARUNKUMAR D	3	4	4	4	4	19	76
5	CB16S 432630	BRINDHA K	4	4	4	4	4	20	80
6	CB16S 432633	FATHIMABEVI M	5	5	2	5	5	22	88
7	CB16S 432634	GAYATHRI M	5	5	5	5	5	25	100
8	CB16S 432635	GAYATHIRI N	4	3	4	4	3	18	72
9	CB16S 432636	GOKULAKRISHNAN V	5	5	4	5	5	24	96
10	CB16S 432637	GOPALAKRISHNAN T	3	3	3	4	4	17	68
11	CB16S 432638	HARIHARAN P	4	4	4	4	4	20	80
12	CB16S 432639	KOMALAVALLI K	4	5	5	4	4	22	88
13	CB16S 432640	MATHAVAN S	4	4	4	4	3	19	76
14	CB16S 432641	MEGALA H	5	4	5	4	4	22	88
15	CB16S 432642	MOUNIKA V	4	4	5	5	5	23	92
16	CB16S 432643	MURALI M	2	2	2	2	2	10	40
17	CB16S 432644	NANDHINI V	4	3	3	4	4	18	72



18	CB16S 432645	PAVITHRA S	4	3	4	4	4	19	76
19	CB16S 432646	PRAKASH S	2	2	2	2	2	10	40
20	CB16S 432648	RAGAVAN S R	2	3	4	4	4	17	68
21	CB16S 432649	RAMYA B	2	3	4	4	4	17	68
22	CB16S 432651	SANDHIYA C	2	2	3	3	3	13	52
23	CB16S 432653	SHOLOM RICH J	3	3	3	4	4	17	68
24	CB16S 432654	SINDHU BAIRAVI S	4	4	4	5	4	21	84
25	CB16S 432655	SUNDARAM C	4	4	3	4	4	19	76
26	CB16S 432656	THANUSIYA A	5	5	5	4	4	23	92
27	CB16S 432657	THINAGARAN K	2	2	2	3	3	12	48
28	CB16S 432658	VARSHADEVI D	3	4	3	4	4	18	72
29	CB16S 432659	VASANTH J	4	3	3	3	3	16	64
30	CB16S 432660	VEMBARASI K	4	3	3	3	4	17	68
31	CB16S 432661	VIGNESH R	3	2	3	3	3	14	56
32	CB16S 432662	VIJAY V	2	3	4	4	3	16	64
33	CB16S 432663	YOGALAKSHMI M	3	3	4	4	4	18	72
Average			3.48	3.45	3.64	3.85	3.73		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.48	75.00	78.48	92.33
CO2	3.45	75.00	78.45	92.29
CO3	3.64	75.00	78.64	92.52
CO4	3.85	75.00	78.85	92.76
CO5	3.73	75.00	78.73	92.62

COURSE ATTAINMENT FOR B.Sc PHYSICS

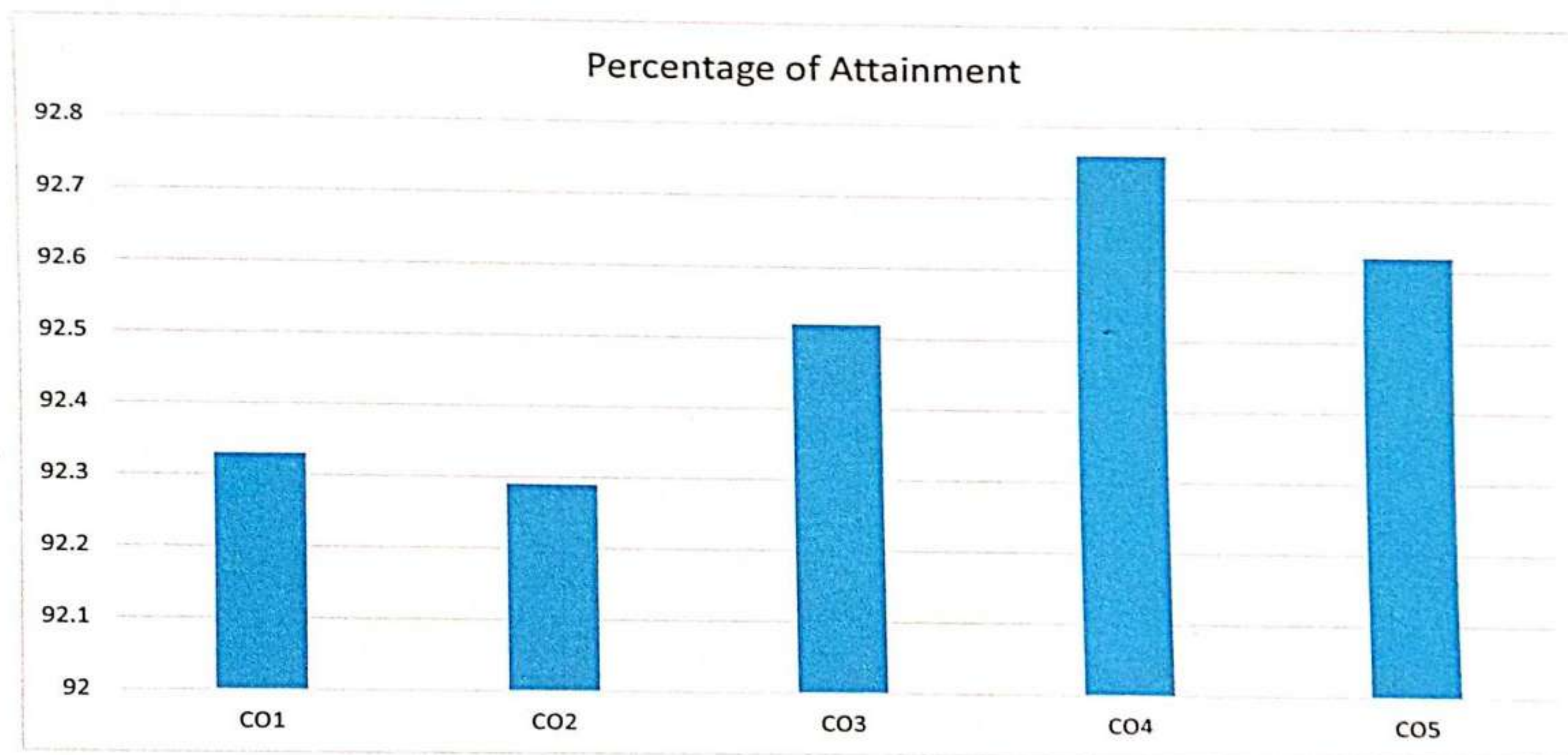
SUBJECT NAME : ELECTRONICS

SUBJECT CODE : 16SCCPH7

NO OF STUDENTS : 33

Course Outcome	Percentage of Attainment
CO1	92.33
CO2	92.29
CO3	92.52
CO4	92.76
CO5	92.62



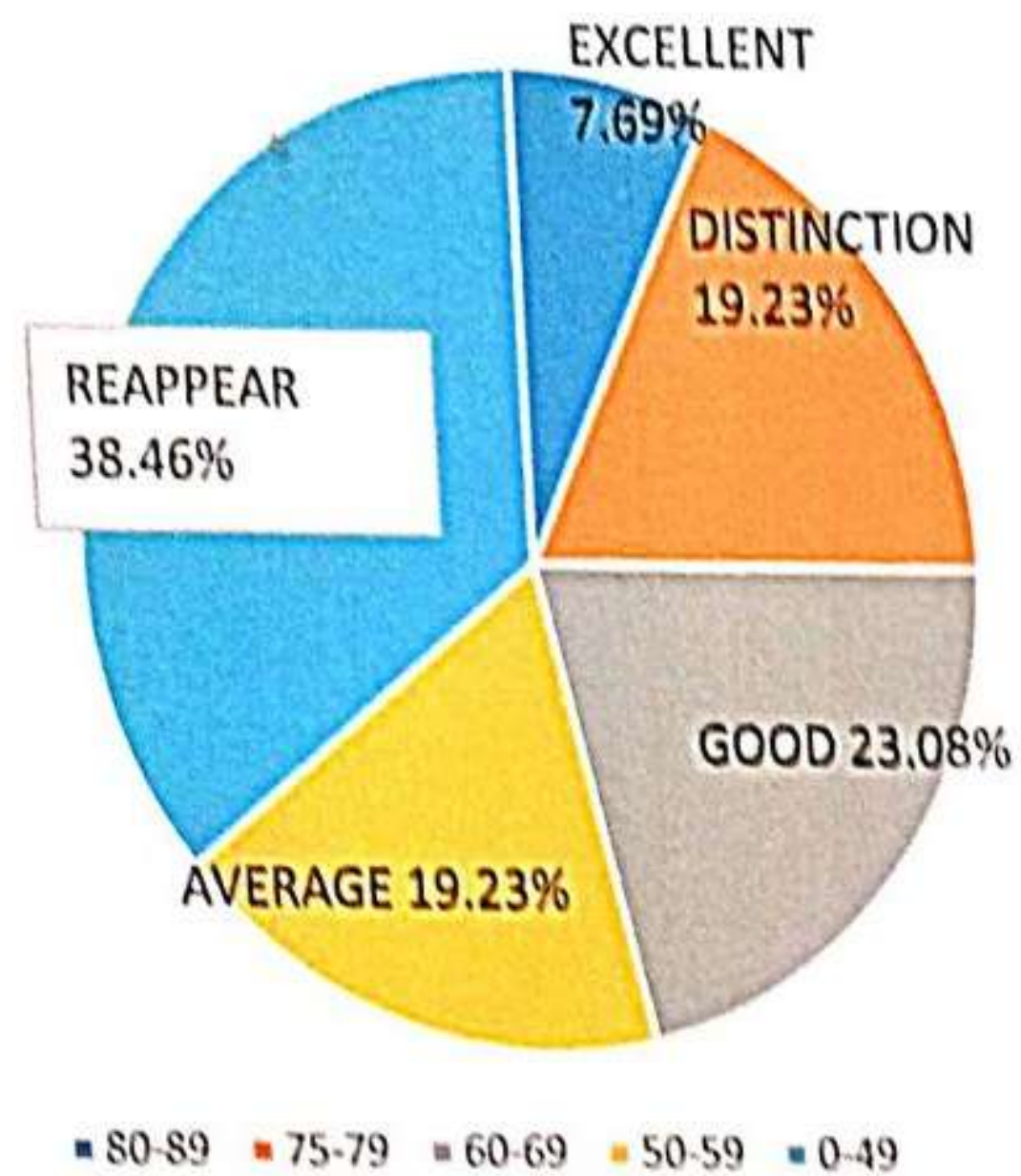


Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstaning
80-89	2	Excellent
75-79	5	Distinction
70-74	5	Very Good
60-69	6	Good
50-59	5	Average
0-49	10	Reappear

Course Outcome Assessment		
CATEGORY	PERCENTAGE	STATUS
80-89	7.69	Excellent
75-79	19.23	Distinction
60-69	23.08	Good
50-59	19.23	Average
0-49	38.46	Reappear



Course Outcome Assessment



PRINCIPAL
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16SCCPH8- Nuclear physics
COURSE OUTCOME

CO1	The basic nuclear properties, Nuclear models
CO2	Radioactive decay law, types of decay and properties of neutrino.
CO3	Describe particle detectors and accelerators.
CO4	Nuclear reactions, conservation laws, Q-value calculations, Nuclear reactor.
CO5	Elementary particles, conservation laws, Quark model.

PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	0	2	0	0	2
CO2	2	2	0	1	1
CO3	0	0	1	2	1
CO4	1	1	0	1	2
CO5	0	1	1	0	0
Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB16S 432626	AARTHI	3	2	4	3	3	15	60
2	CB16S 432627	AKALYA V	3	2	3	3	2	13	52
3	CB16S 432628	ARAVINDHAN S	2	2	2	3	2	11	44
4	CB16S 432629	ARUNKUMAR D	4	4	4	4	4	20	80
5	CB16S 432630	BRINDHA K	4	3	3	2	3	15	60
6	CB16S 432633	FATHIMABEVI M	3	3	3	3	3	15	60
7	CB16S 432634	GAYATHRI M	4	4	4	4	4	20	80
8	CB16S 432635	GAYATHIRI N	4	3	2	2	3	14	56
9	CB16S 432636	GOKULAKRISHNAN V	4	5	4	4	4	21	84
10	CB16S 432637	GOPALAKRISHNAN T	3	2	4	2	3	14	56
11	CB16S 432638	HARIHARAN P	2	2	3	2	2	11	44
12	CB16S 432639	KOMALAVALLI K	3	2	4	3	3	15	60
13	CB16S 432640	MATHAVAN S	3	2	2	2	2	11	44
14	CB16S 432641	MEGALA H	4	4	4	5	4	21	84
15	CB16S 432642	MOUNIKA V	5	4	4	4	4	21	84
16	CB16S 432643	MURALI M	2	3	2	2	2	11	44
17	CB16S 432644	NANDHINI V	3	2	4	2	4	15	60



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB16S 432626	AARTHI	3	2	4	3	3	15	60
2	CB16S 432627	AKALYA V	3	2	3	3	2	13	52
3	CB16S 432628	ARAVINDHAN S	2	2	2	3	2	11	44
4	CB16S 432629	ARUNKUMAR D	4	4	4	4	4	20	80
5	CB16S 432630	BRINDHA K	4	3	3	2	3	15	60
6	CB16S 432633	FATHIMABEVI M	3	3	3	3	3	15	60
7	CB16S 432634	GAYATHRI M	4	4	4	4	4	20	80
8	CB16S 432635	GAYATHIRI N	4	3	2	2	3	14	56
9	CB16S 432636	GOKULAKRISHNAN V	4	5	4	4	4	21	84
10	CB16S 432637	GOPALAKRISHNAN T	3	2	4	2	3	14	56
11	CB16S 432638	HARIHARAN P	2	2	3	2	2	11	44
12	CB16S 432639	KOMALAVALLI K	3	2	4	3	3	15	60
13	CB16S 432640	MATHAVAN S	3	2	2	2	2	11	44
14	CB16S 432641	MEGALA H	4	4	4	5	4	21	84
15	CB16S 432642	MOUNIKA V	5	4	4	4	4	21	84
16	CB16S 432643	MURALI M	2	3	2	2	2	11	44
17	CB16S 432644	NANDHINI V	3	2	4	2	4	15	60



18	CB16S 432645	PAVITHRA S	3	3	3	3	3	15	60
19	CB16S 432646	PRAKASH S	2	2	2	3	2	11	44
20	CB16S 432648	RAGAVAN S R	3	3	2	3	3	14	56
21	CB16S 432649	RAMYA B	3	2	3	2	3	13	52
22	CB16S 432651	SANDHIYA C	3	3	2	3	2	13	52
23	CB16S 432653	SHOLOM RICH J	2	2	2	3	2	11	44
24	CB16S 432654	SINDHU BAIRAVI S	4	4	4	4	3	19	76
25	CB16S 432655	SUNDARAM C	2	3	2	2	2	11	44
26	CB16S 432656	THANUSIYA A	3	3	3	3	3	15	60
27	CB16S 432657	THINAGARAN K	2	2	3	2	2	11	44
28	CB16S 432658	VARSHADEVI D	3	4	3	4	4	18	72
29	CB16S 432659	VASANTH J	3	3	3	3	2	14	56
30	CB16S 432660	VEMBARASI K	4	4	4	3	3	18	72
31	CB16S 432661	VIGNESH R	2	2	2	3	2	11	44
32	CB16S 432662	VIJAY V	2	3	2	2	2	11	44
33	CB16S 432663	YOGALAKSHMI M	3	4	3	4	3	17	68
Average			3.03	2.91	3.00	2.94	2.82		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.03	75	78.03	91.80
CO2	2.91	75	77.91	91.66
CO3	3	75	78	91.76
CO4	2.94	75	77.94	91.69
CO5	2.82	75	77.82	91.55

Course Attainment for B.Sc Physics

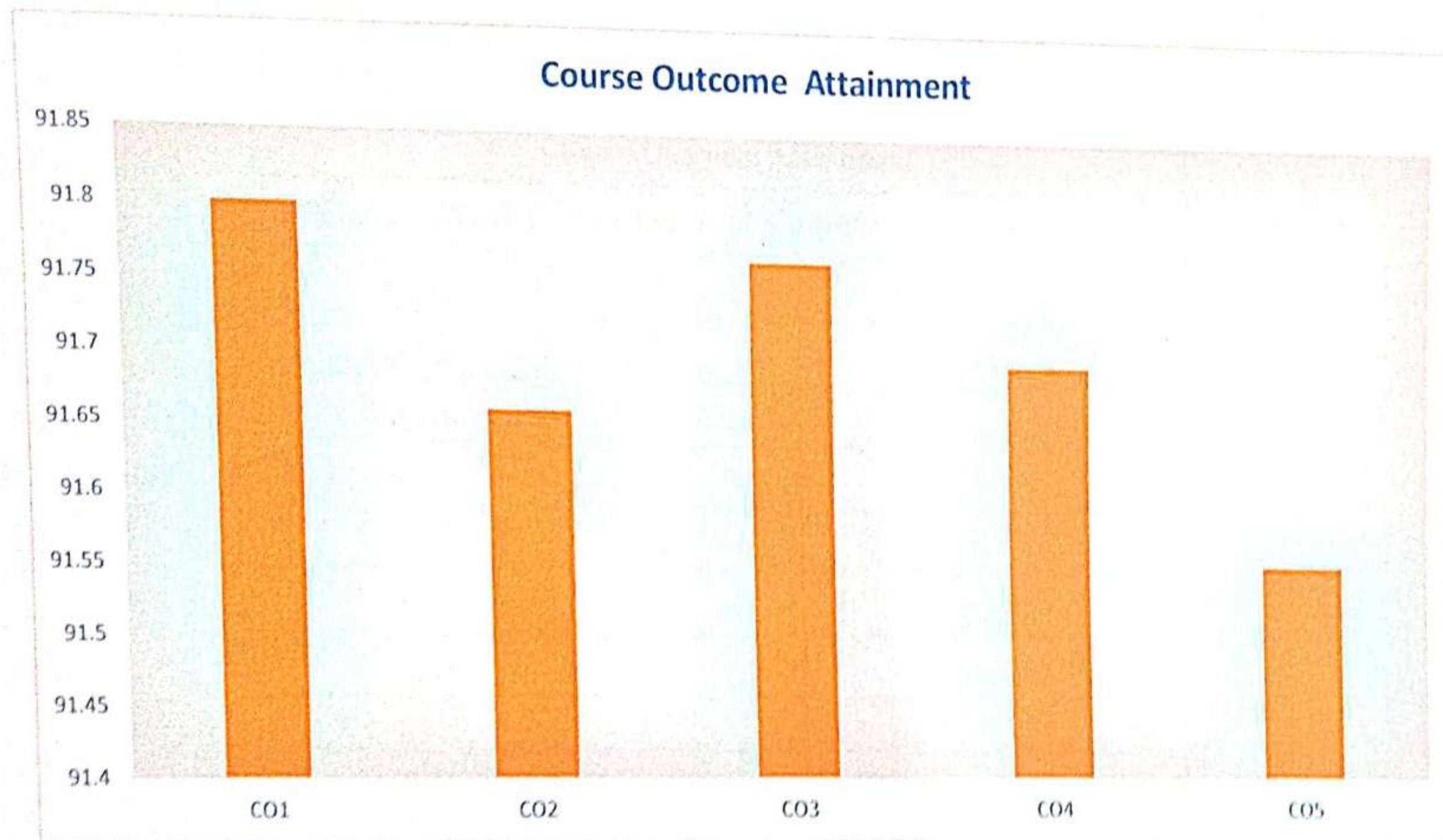
Subject Name: Nuclear physics

Subject Code: 16SCCPH8

Number of Students: 33

Course Outcome	Percentage of Attainment
CO1	91.80
CO2	91.66
CO3	91.76
CO4	91.69
CO5	91.55





Course Attainment for B.Sc Physics

Subject Name: Nuclear physics

Subject Code: 16SCCPH8

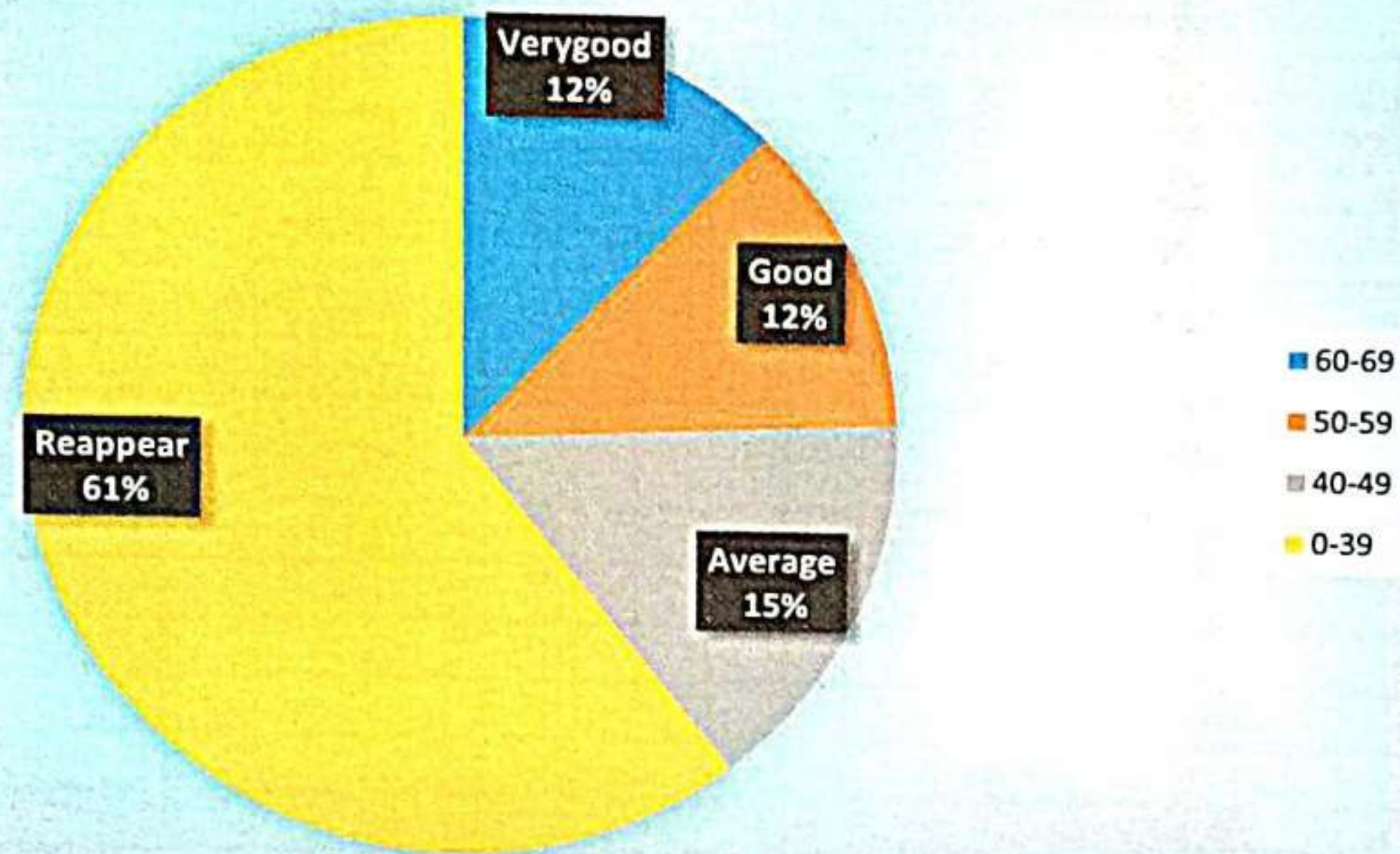
Number of Students: 33

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	0	Distinction
60-69	4	Very Good
50-59	4	Good
40-49	5	Average
0-39	20	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
60-69	12.12	Very Good
50-59	12.12	Good
40-49	15.15	Average
0-39	60.61	Reappear



Course Outcome Assessment Percentage



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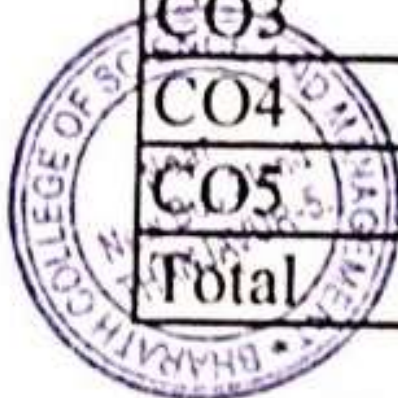
16SCCPH9 - Theoretical Physics
COURSE OUTCOME

CO1	Study fundamental laws, Conservation theorem and Symmetry properties.
CO2	To understand the characteristics of generalized momentum and Cyclic co-ordinate.
CO3	To understand experimental study of matter waves and Debroglie relation.
CO4	To understand the development of Schrodinger wave equation and properties of wave function
CO5	To study the foundation of Quantum system.

PO→					
CO↓	PO1	PO2	PO3	PO4	P05
CO1	3	2	0	1	0
CO2	3	3	0	2	0
CO3	2	2	2	3	2
CO4	0	2	3	3	3
CO5	2	3	3	0	2
Average	2	2.4	1.6	1.8	1.4

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB16S 432626	AARTHI	3	2	3	3	2	13	52
CB16S 432627	AKALYA V	3	2	3	3	2	13	52
CB16S 432628	ARAVINDHAN S	2	2	2	3	2	11	44
CB16S 432629	ARUNKUMAR D	3	3	3	3	4	16	64
CB16S 432630	BRINDHA K	3	2	3	3	3	14	56
CB16S 432633	FATHIMABEVI M	3	3	3	3	3	15	60
CB16S 432634	GAYATHRI M	4	4	4	3	4	19	76
CB16S 432635	GAYATHIRI N	4	3	2	2	2	13	52
CB16S 432636	GOKULAKRISHNAN V	4	5	5	4	4	22	88
CB16S 432637	GOPALAKRISHNAN T	3	2	4	3	3	15	60
CB16S 432638	HARIHARAN P	2	2	3	2	2	11	44
CB16S 432639	KOMALAVALLI K	3	2	3	2	3	13	52
CB16S 432640	MATHAVAN S	3	2	2	2	2	11	44
CB16S 432641	MEGALA H	2	3	3	3	3	14	56
CB16S 432642	MOUNIKA V	3	3	3	3	4	16	64
CB16S 432643	MURALI M	2	3	2	2	2	11	44
CB16S 432644	NANDHINI	3	2	3	2	3	13	52



CB16S 432645	PAVITHRA S	3	3	3	2	2	13	52
CB16S 432646	PRAKASH S	2	2	2	3	2	11	44
CB16S 432648	RAGAVAN S R	3	3	3	2	2	13	52
CB16S 432649	RAMYA B	3	2	3	2	3	13	52
CB16S 432651	SANDHIYA C	3	3	2	3	2	13	52
CB16S 432653	SHOLOM RICH J	2	2	2	3	2	11	44
CB16S 432654	SINDHU BAIRAVI S	3	3	3	3	3	15	60
CB16S 432655	SUNDARAM C	2	3	2	2	2	11	44
CB16S 432656	THANUSIYA A	3	4	3	3	3	16	64
CB16S 432657	THINAGARAN K	2	2	3	2	2	11	44
CB16S 432658	VARSHADEVI D	3	3	3	3	2	14	56
CB16S 432659	VASANTH J	3	3	3	3	2	14	56
CB16S 432660	VEMBARASI K	3	3	3	2	2	13	52
CB16S 432661	VIGNESH R	2	2	2	3	2	11	44
CB16S 432662	VIJAY V	2	3	2	2	2	11	44
CB16S 432663	YOGALAKSHMI M	2	2	3	3	3	13	52
Average		2.76	2.67	2.82	2.64	2.55		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	2.76	75	77.76	91.48
CO2	2.67	75	77.67	91.38
CO3	2.82	75	77.82	91.55
CO4	2.64	75	77.64	91.34
CO5	2.55	75	77.55	91.24

COURSE ATTAINMENT FOR B.Sc Physics

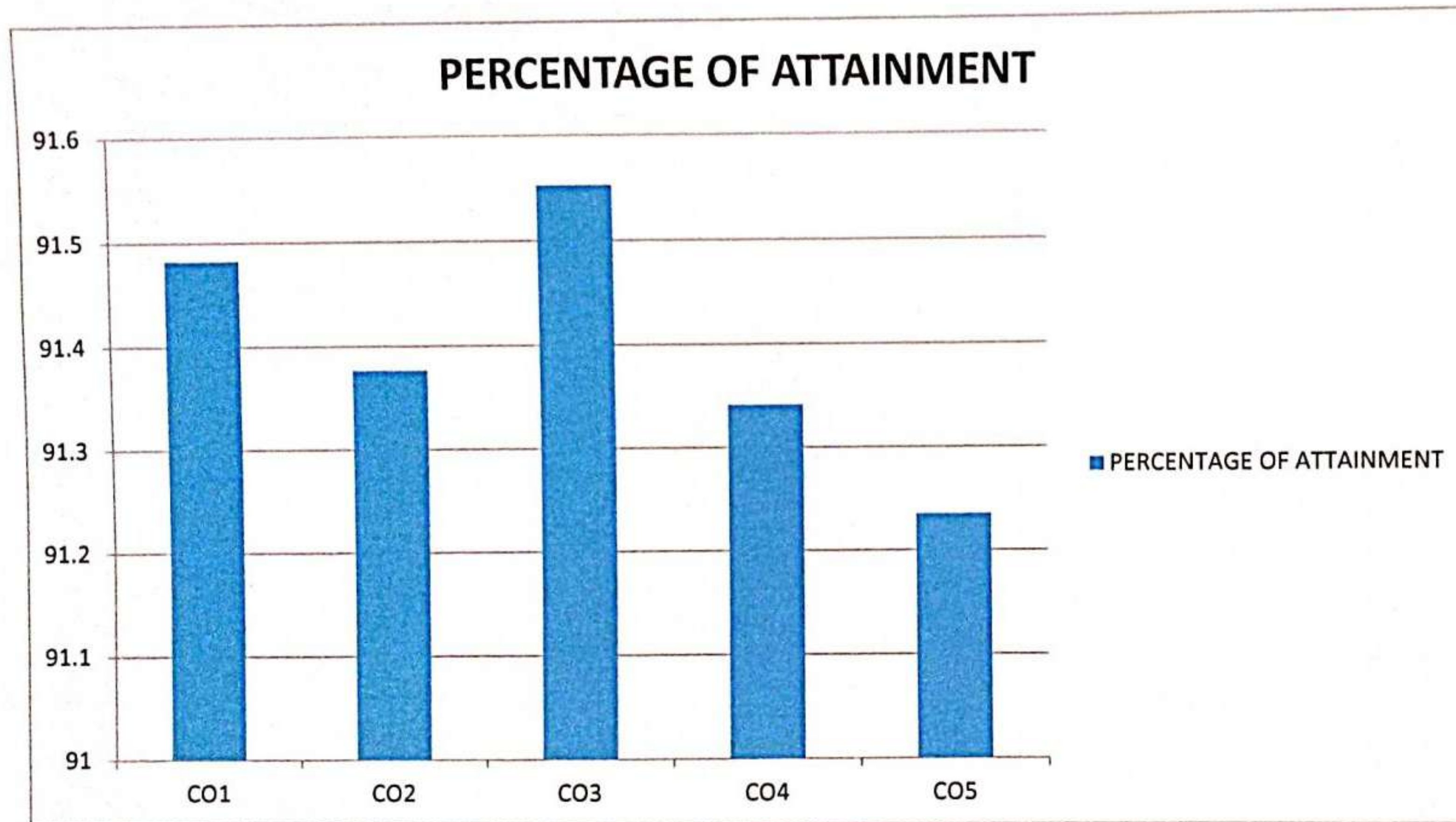
SUBJECT NAME : THEORITICAL PHYSICS

SUBJECT CODE : 16SCCPH9

NO.OF STUDENTS : 33

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	91.48
CO2	91.38
CO3	91.55
CO4	91.34
CO5	91.24





COURSE ATTAINMENT FOR B.Sc Physics

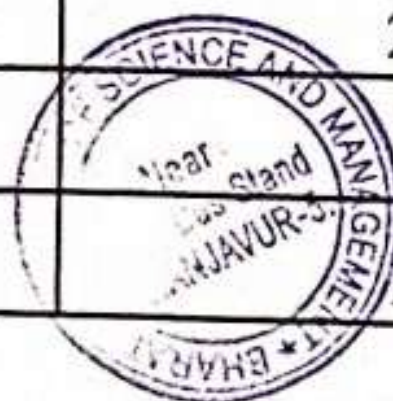
SUBJECT NAME : THEORITICAL PHYSICS

SUBJECT CODE : 16SCCPH9

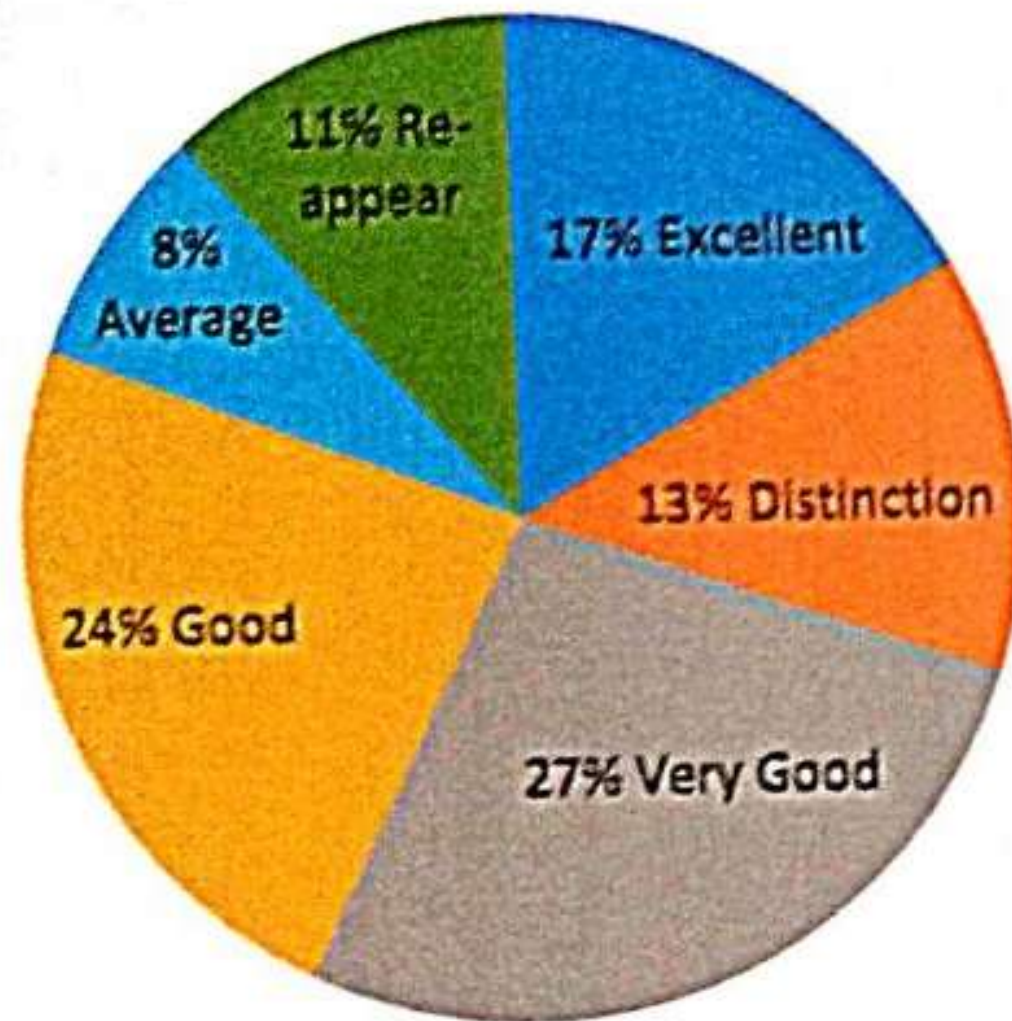
NO.OF STUDENTS : 33

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	5	EXCELLENT
75-79	4	DISTINCTION
70-74	8	VERY GOOD
60-69	7	GOOD
50-59	5	AVERAGE
0-49	4	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	19.23	EXCELLENT
75-79	15.38	DISTINCTION
70-74	30.77	VERY GOOD
60-69	26.92	GOOD
50-59	9.00	AVERAGE
0-49	13.00	RE-APPEAR



PERCENTAGE



- 80-89
- 75-79
- 70-74
- 60-69
- 50-59
- 0-49



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PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SMBEPH3 Communication Physics

COURSE OUTCOME

CO1	To understand the made on the memory and Basic components of computer
CO2	To understand the architecture and basic instructions of 8085
CO3	Write assembly language for the microprocessor intel 8085
CO4	To understand the basic structure of C and variables, constant
CO5	To understand the basic instruction and branch statements



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	1	0	1	0	1
CO2	2	0	1	0	0
CO3	0	1	1	1	1
CO4	1	2	0	1	0
CO5	1	0	0	1	1
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB16S 432626	AARTHI	4	4	4	4	4	20	80
2	CB16S 432627	AKALYA V	4	3	4	3	4	18	72
3	CB16S 432628	ARAVINDHAN S	3	2	3	2	3	13	52
4	CB16S 432629	ARUNKUMAR D	4	4	4	3	3	18	72
5	CB16S 432630	BRINDHA K	4	4	4	4	4	20	80
6	CB16S 432633	FATHIMABEVI M	4	4	4	4	4	20	80
7	CB16S 432634	GAYATHRI M	5	5	4	4	4	22	88
8	CB16S 432635	GAYATHIRI N	4	4	4	3	3	18	72
9	CB16S 432636	GOKULAKRISHNAN V	5	5	4	4	4	22	88
10	CB16S 432637	GOPALAKRISHNAN T	3	3	3	3	2	14	56
11	CB16S 432638	HARIHARAN P	4	4	4	4	3	19	76
12	CB16S 432639	KOMALAVALLI K	4	4	4	4	4	20	80
13	CB16S 432640	MATHAVAN S	4	3	3	3	3	16	64
14	CB16S 432641	MEGALA H	4	4	4	4	4	20	80
15	CB16S 432642	MOUNIKA V	5	5	4	4	4	22	88
16	CB16S 432643	MURALI M	3	3	3	3	2	14	56
17	CB16S 432644	NANDHINI V	4	4	4	4	4	20	80
18	CB16S 432645	PAVITHRA S	4	4	4	4	4	20	80



19	CB16S 432646	PRAKASH S	3	3	3	3	2	14	56
20	CB16S 432648	RAGAVAN S R	4	3	3	3	3	16	64
21	CB16S 432649	RAMYA B	4	4	4	3	3	18	72
22	CB16S 432651	SANDHIYA C	4	3	3	3	3	16	64
23	CB16S 432653	SHOLOM RICH J	4	3	3	3	3	16	64
24	CB16S 432654	SINDHU BAIRAVI S	5	5	4	4	4	22	88
25	CB16S 432655	SUNDARAM C	4	4	3	3	3	17	68
26	CB16S 432656	THIANUSIYA A	5	5	4	5	4	23	92
27	CB16S 432657	THINAGARAN K	3	3	3	3	2	14	56
28	CB16S 432658	VARSHADEVI D	4	4	4	3	3	18	72
29	CB16S 432659	VASANTH J	3	3	3	3	2	14	56
30	CB16S 432660	VEMBARASI K	4	4	4	3	3	18	72
31	CB16S 432661	VIGNESH R	3	3	3	3	2	14	56
32	CB16S 432662	VIJAY V	3	3	3	3	2	14	56
33	CB16S 432663	YOGALAKSHMI M	4	4	4	3	3	18	72
Average			3.91	3.73	3.61	3.39	3.18		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.91	75	78.91	92.84
CO2	3.73	75	78.73	92.62
CO3	3.61	75	78.61	92.48
CO4	3.39	75	78.39	92.22
CO5	3.18	75	78.18	91.98

Course Attainment for B.Sc Physics

Subject Name: Communication Physics

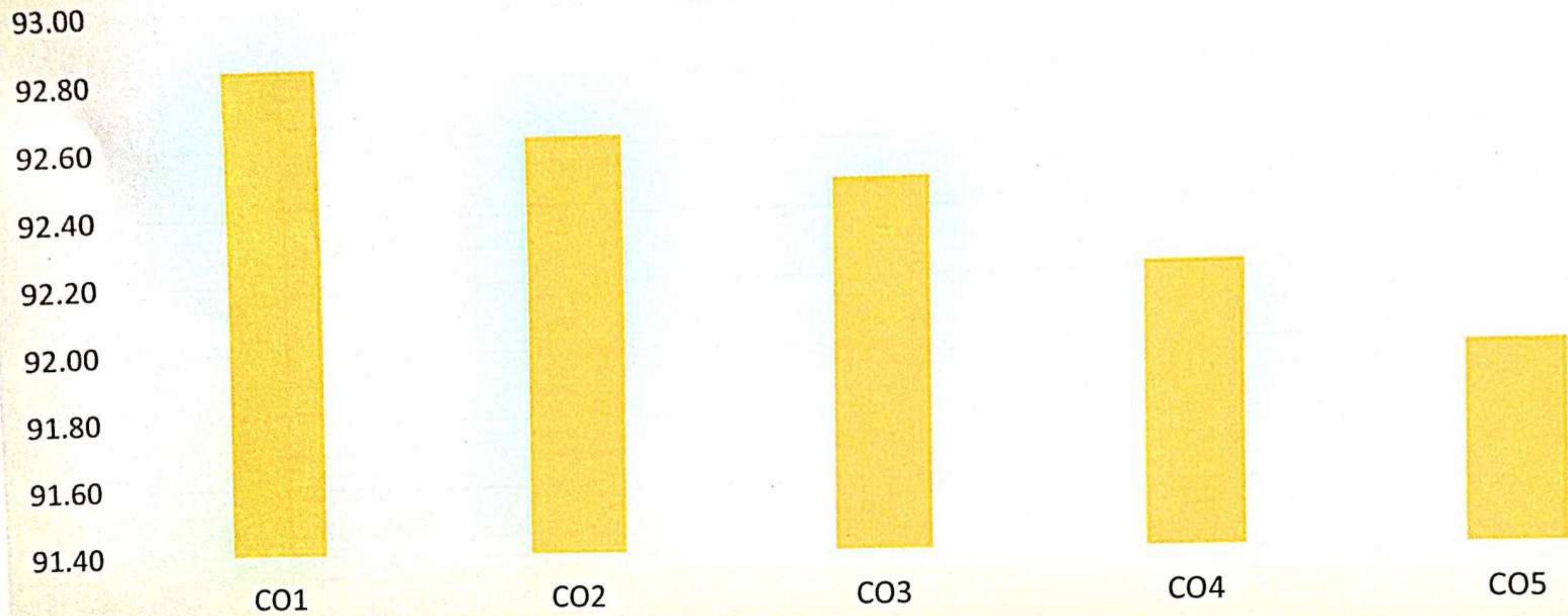
Subject Code: 16SMBEPH3

Number of Students: 33

Course Outcome	Percentage of Attainment
CO1	92.84
CO2	92.62
CO3	92.48
CO4	92.22
CO5	91.98



Course Outcome Attainment



Course Attainment for B.Sc Physics

Subject Name: Communication Physics

Subject Code: 16SMBEPH3

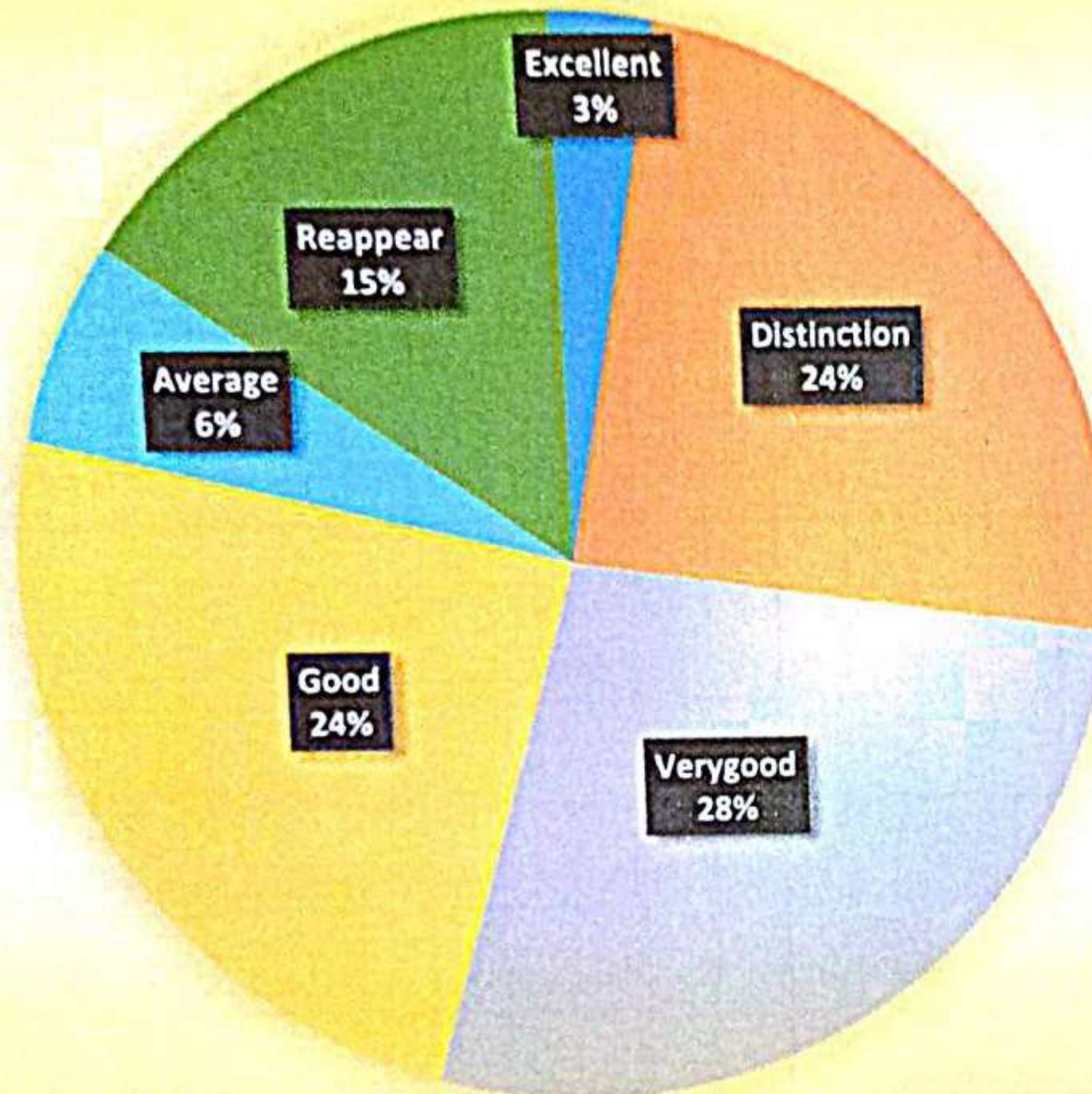
Number of Students: 33

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	1	Excellent
70-79	8	Distinction
60-69	9	Very Good
50-59	8	Good
40-49	2	Average
0-39	5	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
80-89	3.03	Excellent
70-79	24.24	Distinction
60-69	27.27	Very Good
50-59	24.24	Good
40-49	6.06	Average
0-39	15.15	Reappear



Chart Title



- 80-89
- 70-79
- 60-69
- 50-59
- 40-49
- 0-39



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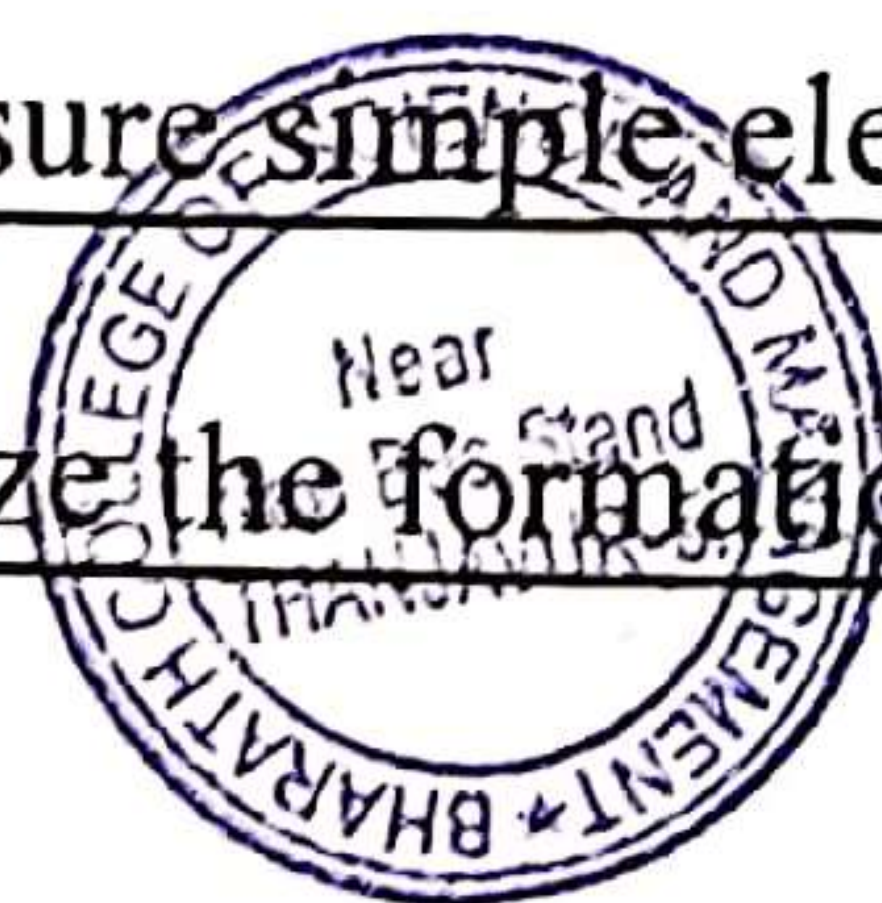
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PROGRAM OUTCOME FOR PRACTICAL

PO1	To find this course introduces to the methods of experimental physics.
PO2	An ability will be given on laboratory techniques such as accuracy of measurements& Data analysis.
PO3	To calculate basic experimental apparatus common to the study of physical phenomena.
PO4	To measure the interrelations between theory and observation the role of systematic and random experimental errors and methods used to analyze experimental uncertainty and compare experiment with theory.
PO5	To communicate scientific ideas effectively both orally and in writing.

16SCCPH1P-MAJOR PRACTICAL-I
COURSE OUTCOME

CO1	To find the young's modulus of materials.
CO2	To determine the heat capacities of liquids and solids.
CO3	To calculate viscosity and surface tension of liquids from measurements.
CO4	To measure simple electrical and magnetic quantities such as voltage, current, resistance, earth's magnetic field.
CO5	To realize the formation of spectrum with prism and grating.



16SCCPH2P-MAJOR PRACTICAL-II

COURSE OUTCOME

CO1	To analyse the spectral lines using prism.
CO2	To convert the galvanometer into millimetre and millivolt meter and calibrate.
CO3	To determine capacitances and inductances using various bridge circuits.
CO4	To find wavelength of monochromatic light by forming Newton's rings.
CO5	To determine the pH, solubility and density of precursor solutions.

16SCCPH3P-MAJOR PRACTICAL-III

COURSE OUTCOME

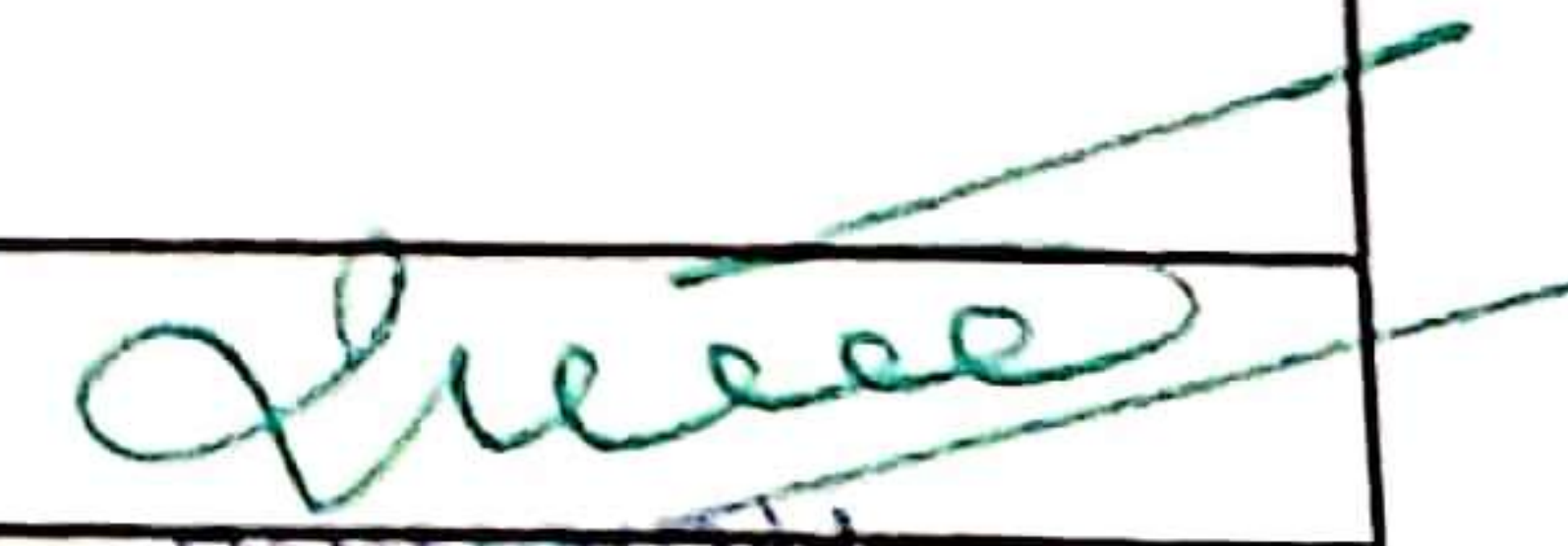
CO1	To find the refractive index value.
CO2	To determine the value of M, EMF, Thermistor and Inductance.
CO3	To determine the series and parallel resonance
CO4	To construction and verification Logic gates
CO5	To construction and verification of OP-amp

16SCCPH4P-MAJOR PRACTICAL-IV

COURSE OUTCOME

CO1	To find the Wavelength, Dispersive power and Cauchy's constant
CO2	To determine the value of M and H, voltmeter calibration
CO3	To construction and characteristics amplifier, oscillator
CO4	To write ALP of arithmetic of intel 8085
CO5	To write ALP of Conversion of intel 8085




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16SCCPH1-PROPERTIES OF MATTER& ACOUSTICS
COURSE OUTCOME

CO1	Study the different modulus of elasticity and determine the rigidity modulus and moment of inertia.
CO2	To understand the expression for bending moment and determination of youngs modulus.
CO3	To understand the experimental study of surface tension and variation of surface tension.
CO4	To understand the fundamental process of Newtons law and recognizing mayers formula to this problems.
CO5	To study the factors affecting the acoustics of building.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	1	2	0	1	0
CO2	1	2	0	2	0
CO3	1	2	2	2	2
CO4	3	2	3	3	3
CO5	0	3	0	2	2
Average	1.2	2.2	1	2	1.4

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB19S 442826	ABRANA.M	5	3	3	3	3	17	68
CB19S 442827	BHAKKIYA LAKSHMI K	2	3	4	4	3	16	64
CB19S 442828	JEGAN J	2	2	2	2	3	11	44
CB19S 442830	KIRUTHIKA K	5	5	5	5	4	24	96
CB19S 442831	NOWSHITHA H	3	3	3	4	4	17	68
CB19S 442832	RAJADURAI R	2	2	3	3	2	12	48
CB19S 442833	RANJITH M	3	3	2	2	2	12	48
CB19S 442834	RANJITH KUMAR M	2	2	2	3	3	12	48
CB19S 442835	SANJAY S	2	2	3	2	2	11	44
CB19S 442836	SANTHIYA DHARSHINI V	5	4	3	3	3	18	72
CB19S 442837	SWETHA B	4	5	4	5	5	23	92
Average		3.18	3.09	3.09	3.27	3.09		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.18	75	78.18	91.98
CO2	3.09	75	78.09	91.87
CO3	3.09	75	78.09	91.87
CO4	3.27	75	78.27	92.08
CO5	3.09	75	78.09	91.87

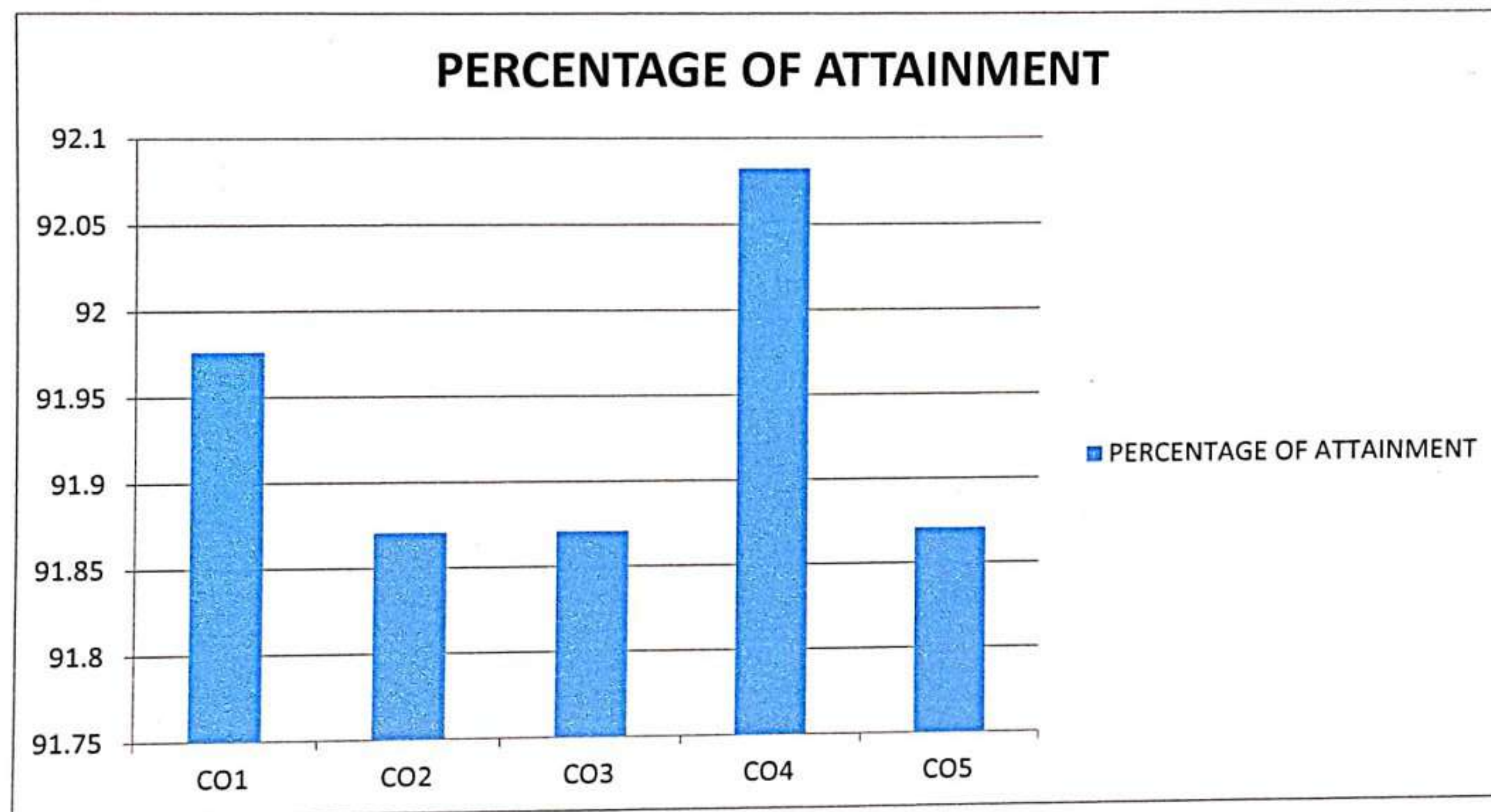
SUBJECT NAME: PROPERTIES OF MATTER AND ACOUSTICS

SUBJECT CODE : 16SCCPH1

NO.OF STUDENTS : 11

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	91.98
CO2	91.87
CO3	91.87
CO4	92.08
CO5	91.87





COURSE ATTAINMENT FOR B.Sc Physics

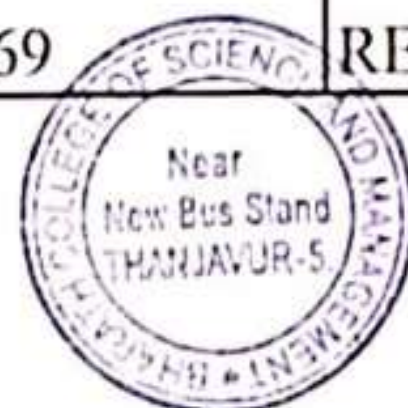
SUBJECT NAME : PROPERTIES OF MATTER AND ACOUSTICS

SUBJECT CODE : 16SCCPH1

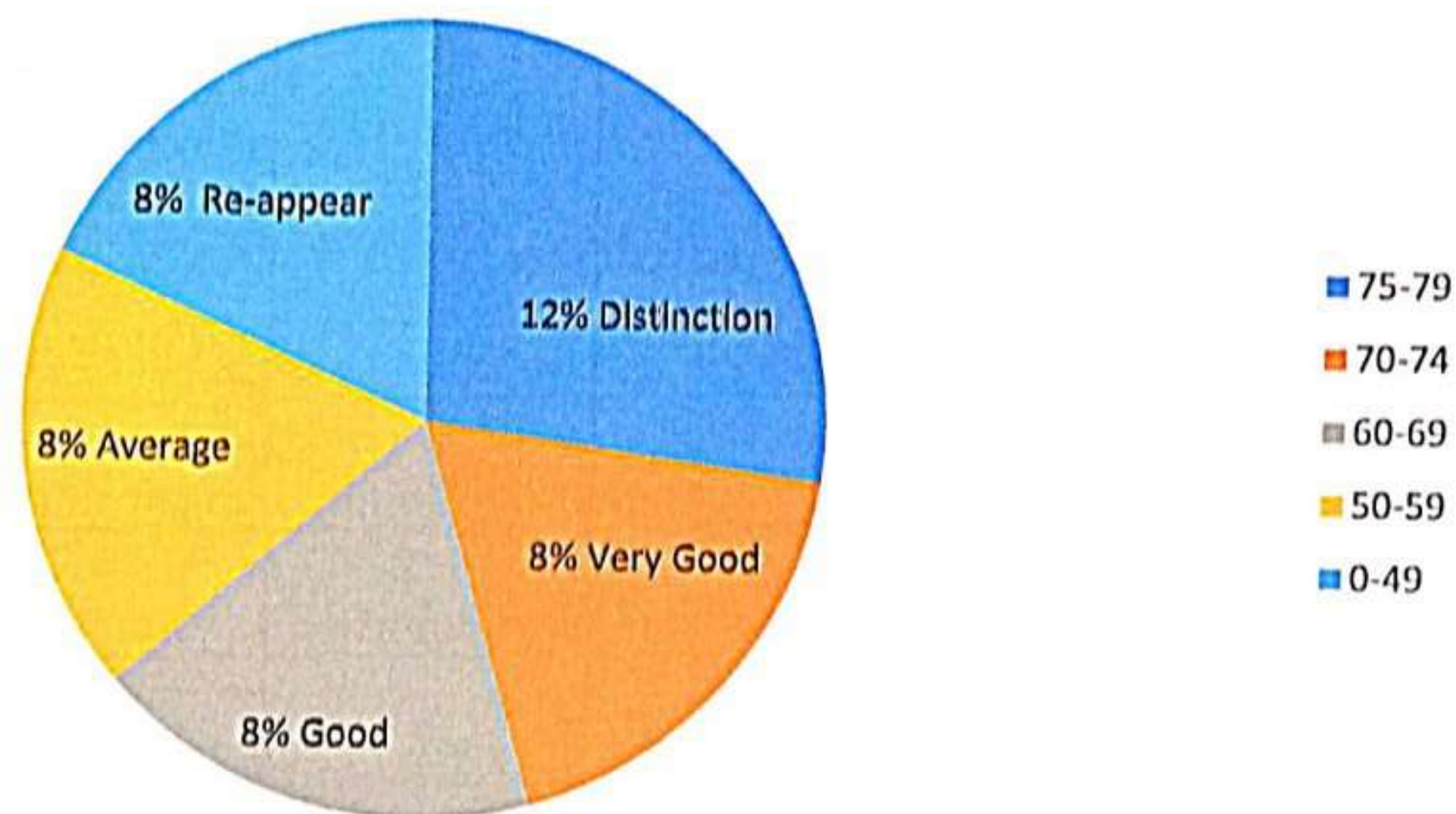
NO.OF STUDENTS : 11

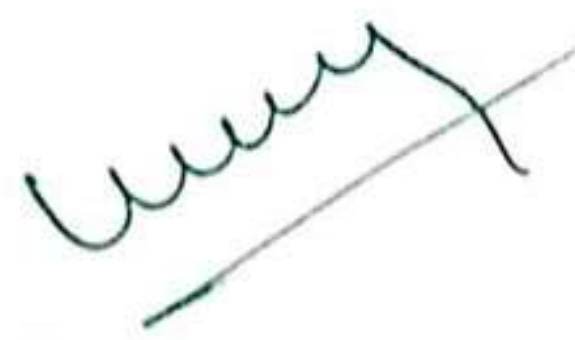
COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	0	EXCELLENT
75-79	3	DISTINCTION
70-74	2	VERY GOOD
60-69	2	GOOD
50-59	2	AVERAGE
0-49	2	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
75-79	11.54	DISTINCTION
70-74	7.69	VERY GOOD
60-69	7.69	GOOD
50-59	7.69	AVERAGE
0-49	7.69	RE-APPEAR



COURSE OUTCOME ASSESSMENT




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16SCCPH2- MECHANICS

COURSE OUTCOME

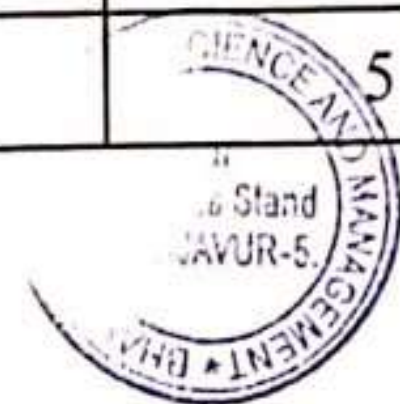
CO1	To understand the fundamentals laws of impact,particle projected in any direction&concept of Direct&oblique impact.
CO2	To understand the expression for normal acceleration&variation of g with altitude,latitude and depth.
CO3	To understand the determine the Newton's law of gravitation and analysis of gravitational potential and field.
CO4	To understand laws of friction,fundamental process of moment of inertia recognizing Kater's pendulum.
CO5	The course foundation of centre of gravity in accordance with atmospheric pressure.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	3	3	0	3	2
CO2	2	2	0	1	1
CO3	0	0	1	2	3
CO4	3	3	2	2	2
CO5	3	2	1	0	0
Average	2.2	2	0.8	1.6	1.6

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB19S 442826	ABRANA.M	4	5	4	5	5	23	92
CB19S 442827	BHAKKIYA LAKSHMI K	4	5	5	5	5	24	96
CB19S 442828	JEGAN J	4	4	4	3	5	20	80
CB19S 442830	KIRUTHIKA K	5	5	5	5	4	24	96
CB19S 442831	NOWSHITHA H	4	4	4	4	4	20	80
CB19S 442832	RAJADURAI R	4	4	5	5	4	22	88
CB19S 442833	RANJITH M	4	4	4	4	4	20	80
CB19S 442834	RANJITH KUMAR M	5	4	4	5	4	22	88
CB19S 442835	SANJAY S	4	4	4	4	4	20	80
CB19S 442836	SANTHIYA DHARSHINI V	4	5	4	4	4	21	84
CB19S 442837	SWETHA B	4	4	4	4	4	20	80
Average		4.18	4.36	4.27	4.36	4.27		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.18	75	79.18	93.15
CO2	4.36	75	79.36	93.36
CO3	4.27	75	79.27	93.26
CO4	4.36	75	79.36	93.36
CO5	4.27	75	79.27	93.26

COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME: Mechanics

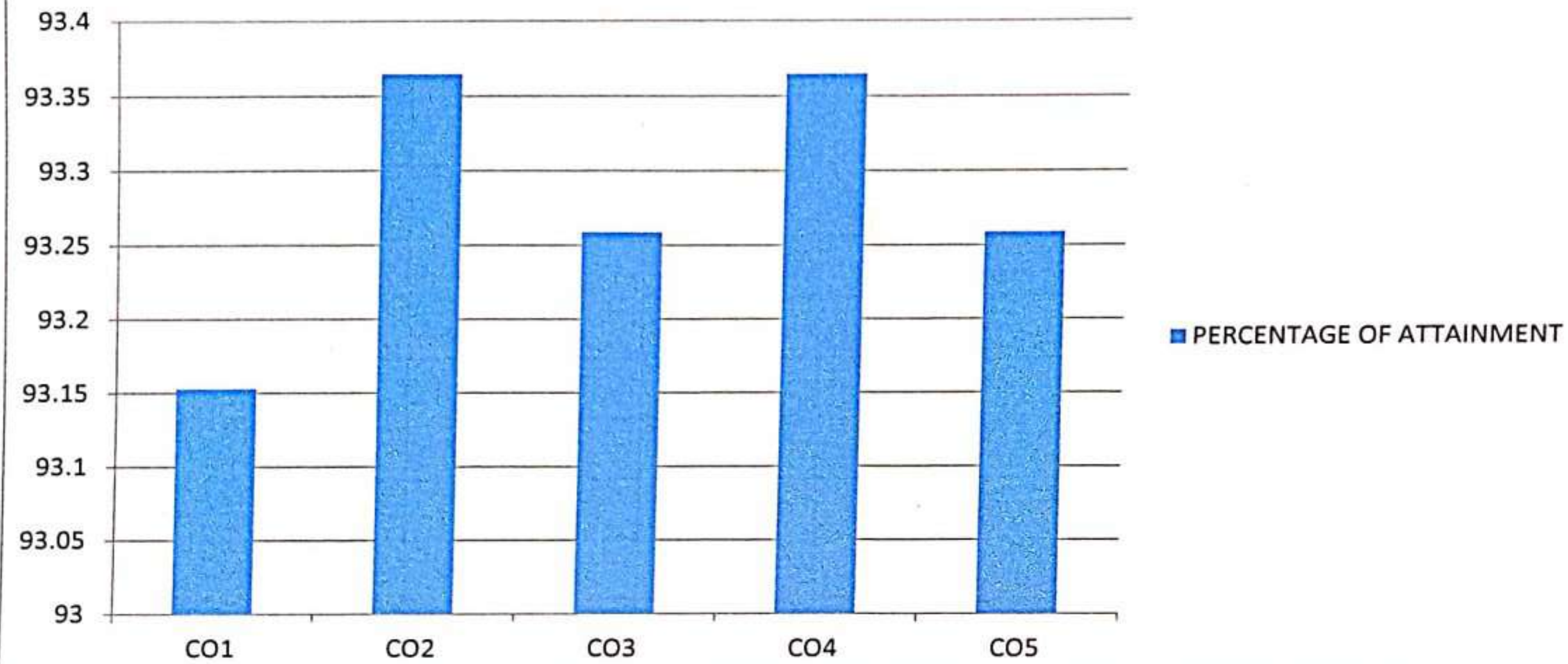
SUBJECT CODE : 16SCCPH2

NO.OF STUDENTS : 11

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	93.15
CO2	93.36
CO3	93.26
CO4	93.36
CO5	93.26



PERCENTAGE OF ATTAINMENT



COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME : Mechanics

SUBJECT CODE : 16SCCPH2

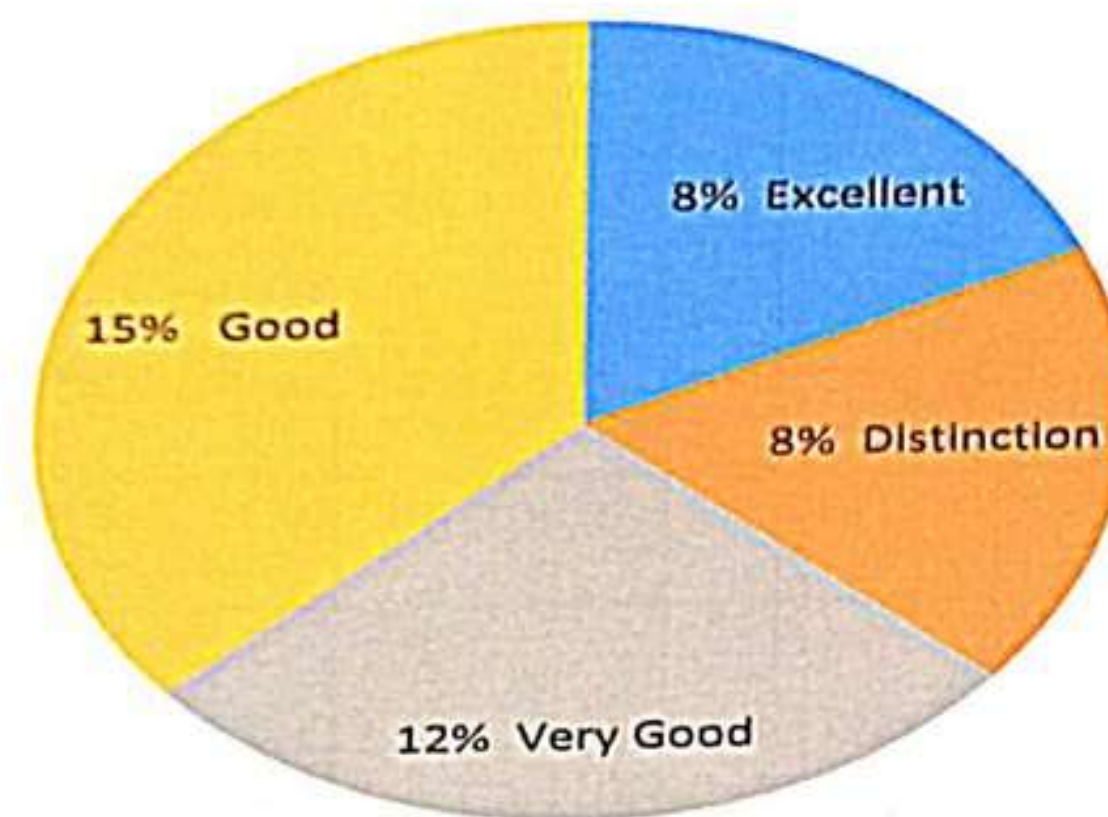
NO.OF STUDENTS : 11

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	2	EXCELLENT
75-79	2	DISTINCTION
70-74	3	VERY GOOD
60-69	4	GOOD
50-59	0	AVERAGE
0-49	0	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	7.69	EXCELLENT
75-79	7.69	DISTINCTION
70-74	11.54	VERY GOOD
60-69	15.38	GOOD



PERCENTAGE



■ 80-89
■ 75-79
■ 70-74
■ 60-69



[Signature]

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THANJAVUR - 613005

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interpret data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH4- ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM
COURSE OUTCOME

CO1	Coulombs law, Gauss's Law, Principle of Capacity and Loss of Energy Calculation
CO2	Critical Law,Kirchhoff's Law,Calibration of Ammeter and Voltmeter
CO3	Laws of Electromagnetic induction,Self and Mutual induction Decay of Current in a circuit
CO4	Series Circuit,Q-factor Calculation, Power in AC Circuits and Uses of Transformers
CO5	Properties of magnetic material ,Energy loss due to magnetic.



Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH4- ELECTRICITY, MAGNETISM AND ELECTROMAGNE TISM	CO1	2	0	1	1	0
	CO2	2	1	1	1	1
	CO3	1	0	0	0	1
	CO4	1	1	1	0	2
	CO5	0	2	0	1	1
	Average	1.2	0.8	0.6	0.6	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.No	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB18S 439596	AARTHI R	4	4	4	4	4	20	80
2	CB18S 439597	ABISHEK J	5	5	5	5	4	24	96
3	CB18S 439598	AKILA V	4	4	4	4	4	20	80
4	CB18S 439599	BHARATHIRAJA P	4	4	4	4	4	20	80
5	CB18S 439600	DHARANI V	5	5	5	5	4	24	96
6	CB18S 439602	NANDHINI P	5	2	5	5	3	20	80
7	CB18S 439603	NIVETHA D	5	4	4	3	4	20	80
8	CB18S 439604	PRAVEENA J	5	4	4	3	4	20	80
9	CB18S 439605	VIGNESH S	5	5	5	4	4	23	92
10	CB18S 439606	VINESH KUMAR M	5	5	5	4	5	24	96
11	CB18S 439607	YAZHINI G	4	5	5	5	5	24	96
	Average		4.64	4.27	4.55	4.18	4.09		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.64	75	79.64	93.69
CO2	4.27	75	79.27	93.26
CO3	4.55	75	79.55	93.59
CO4	4.18	75	79.18	93.15
CO5	4.09	75	79.09	93.05

Course Attainment for B.Sc Physics

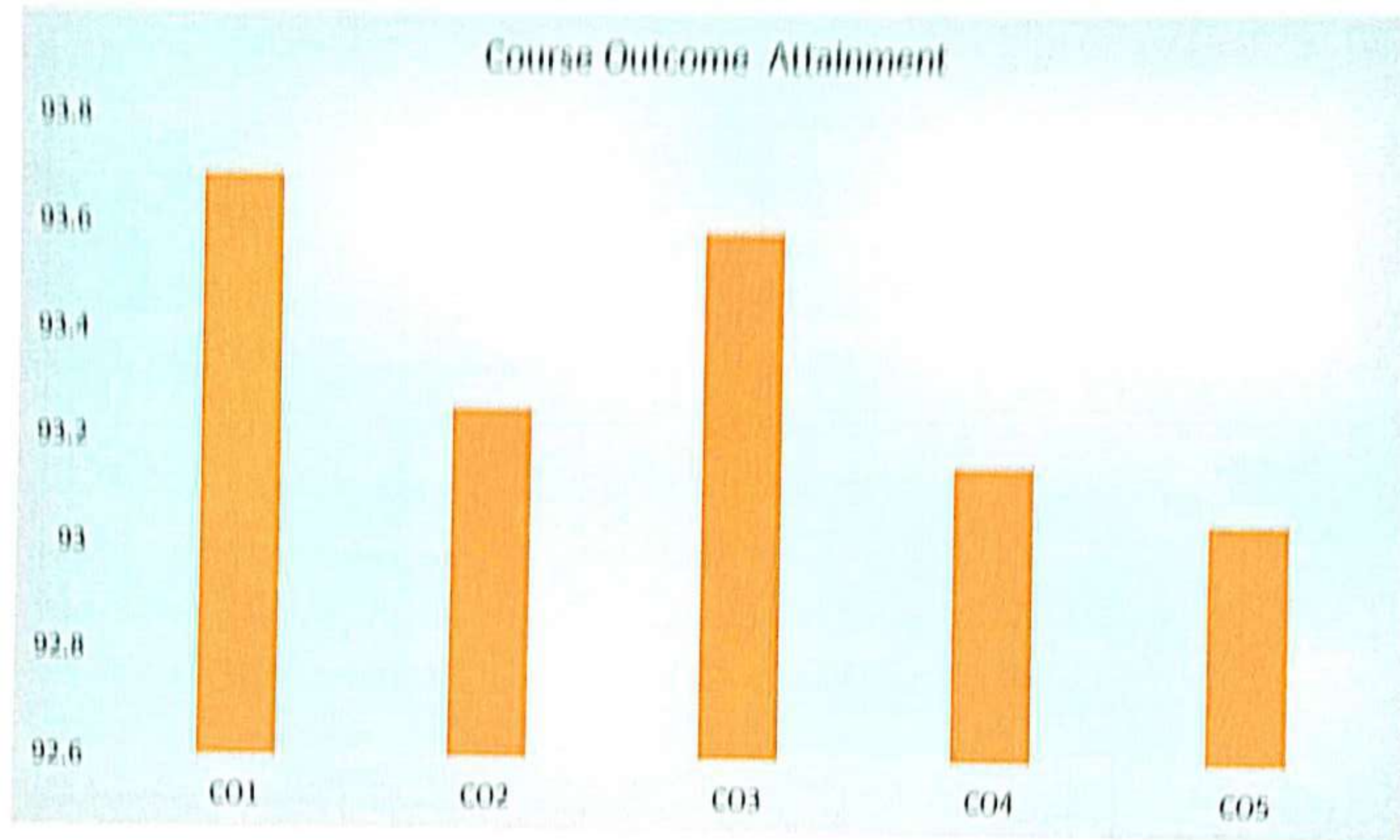
Subject Name: ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM

Subject Code: 16SCCPH4

Number of Students:11

Course Outcome	Percentage of Attainment
CO1	93.69
CO2	93.26
CO3	93.59
CO4	93.15
CO5	93.05





Course Attainment for B.Sc Physics

Subject Name: ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM

Subject Code: 16SCCPH4

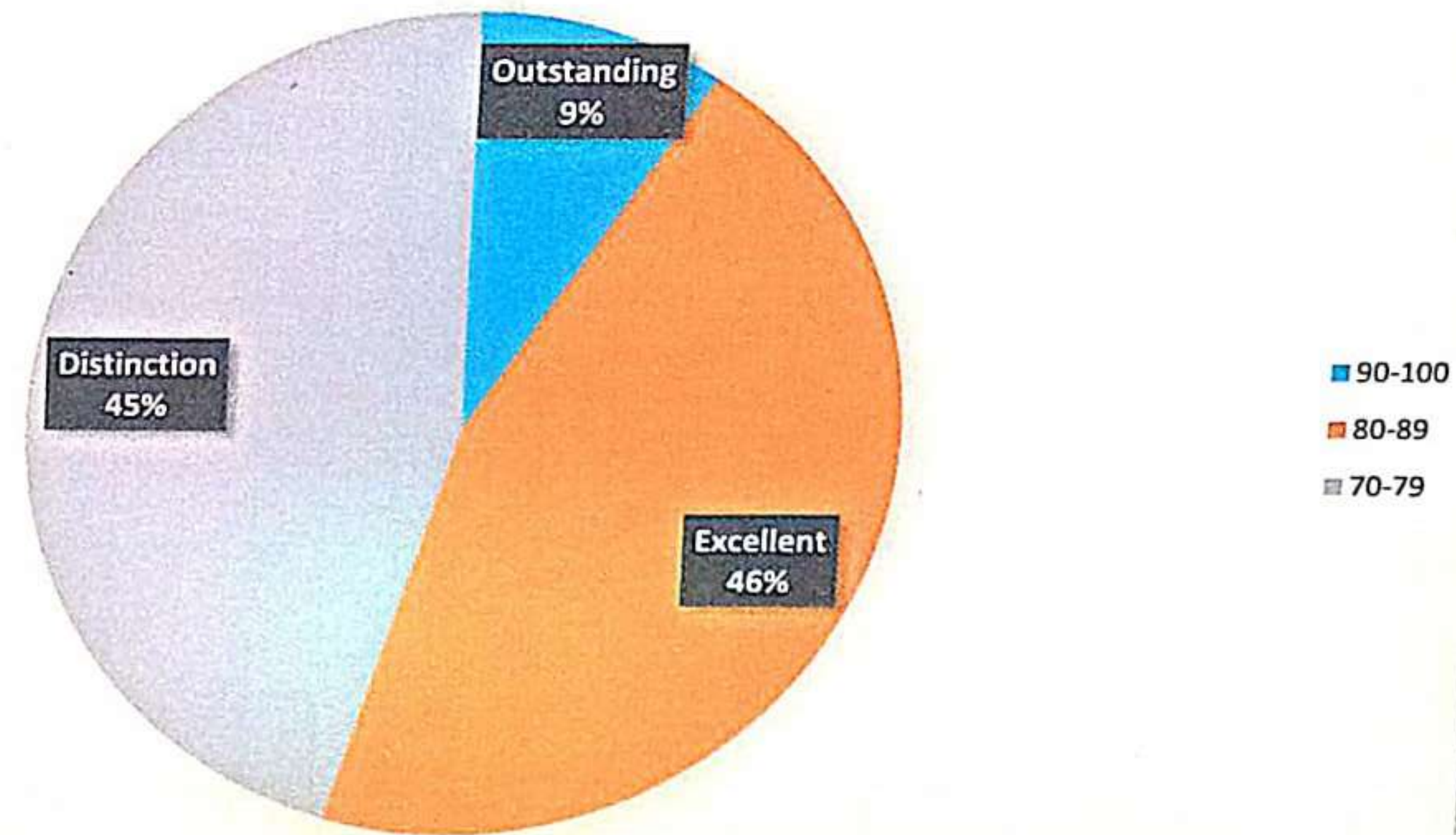
Number of Students: 11

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	1	Outstanding
80-89	5	Excellent
70-79	5	Distinction
60-69	0	Very Good
50-59	0	Good
40-49	0	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	9.09	Outstanding
80-89	45.45	Excellent
70-79	45.45	Distinction



Course Outcome Assessment Percentage



[Signature]
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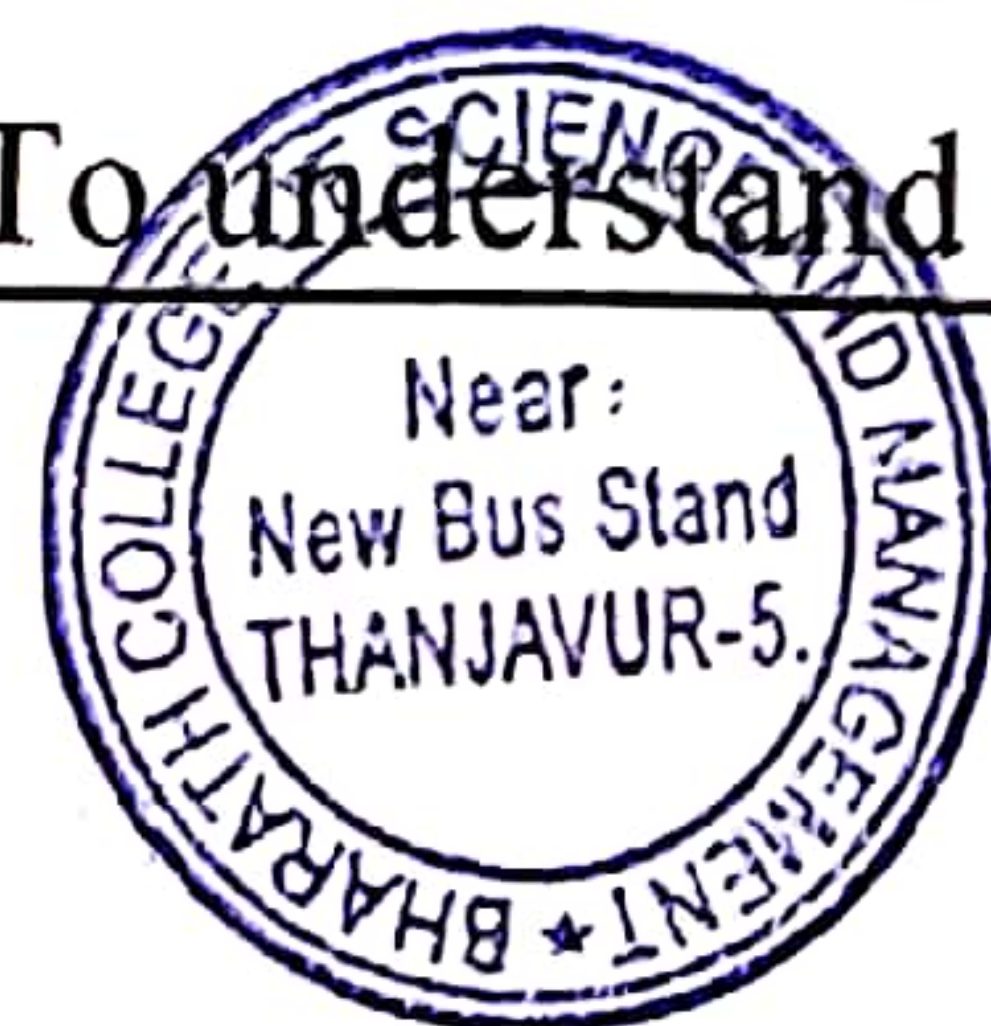
PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH5- Optics

COURSE OUTCOME

CO1	Study different types of Spherical aberration and Chromatic aberration in a lens
CO2	Fundamental of Stationary waves and its applications of interference
CO3	To study differentiate Fresnel's diffraction and Fraunhofer diffraction.
CO4	To understand fundamental process of double image polarizing prism and experimental of Laurent's half shade polarimeter
CO5	To understand various types of Eyepieces and accordance with microscope and Telescope.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	2	0	2	1	2
CO2	2	2	0	1	1
CO3	0	0	1	2	1
CO4	1	1	0	1	0
CO5	0	1	1	0	0
Average	1	0.8	0.8	1	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Name	Register No	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	ABINASH S	CB17S 436221	3	2	2	3	2	12	48
2	ASWATHI B	CB17S 436223	3	2	3	5	5	18	72
3	BHARATHKUMAR R	CB17S 436224	3	3	4	4	4	18	72
4	CHANDRU P	CB17S 436225	3	3	4	5	4	19	76
5	DINESH K	CB17S 436226	2	2	2	2	3	11	44
6	GUNAL V	CB17S 436227	2	2	2	2	4	12	48
7	GUNASEKARAN A	CB17S 436228	2	2	3	2	3	12	48
8	HARIPRASATH S	CB17S 436229	2	2	4	2	4	14	56
9	KAVIYARASAN K	CB17S 436230	3	2	2	2	3	12	48
10	KEERTHANA B	CB17S 436231	3	3	3	5	5	19	76
11	MAHADEV R	CB17S 436232	3	5	3	3	4	18	72
12	MAHESWARI D	CB17S 436233	2	4	5	5	5	21	84
13	MANISHA E	CB17S 436234	3	2	2	3	4	14	56
14	MUTHUKUMAR R	CB17S 436235	3	2	3	2	2	12	48



15	NAVEENKUMAR M	CB17S 436236	2	2	3	2	3
16	PANDITHURAI S	CB17S 436237	2	2	2	2	2
17	RAJKUMAR R	CB17S 436238	2	2	2	2	3
18	RENGARAJ R	CB17S 436239	2	2	2	2	3
19	REYON FRANCES B	CB17S 436240	3	2	5	5	5
20	ROSHINI BEGUM M	CB17S 436241	4	4	5	4	5
21	SHALINI K	CB17S 436242	4	4	4	4	4
22	SORNAMUHI G	CB17S 436243	2	2	3	2	4
23	SUDHAKAR S	CB17S 436244	3	2	3	2	2
24	VIJAYKUMAR T	CB17S 436245	2	2	2	2	2
25	VINODHA S	CB17S 436246	4	5	4	4	4
26	VISNUPRAKASH K	CB17S 436247	2	2	2	4	3
Average			2.89	2.78	3.33	3.22	3.56



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	2.89	75	77.89	91.63
CO2	2.78	75	77.78	91.50
CO3	3.33	75	78.33	92.16
CO4	3.22	75	78.22	92.03
CO5	3.56	75	78.56	92.42

COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME: Optics

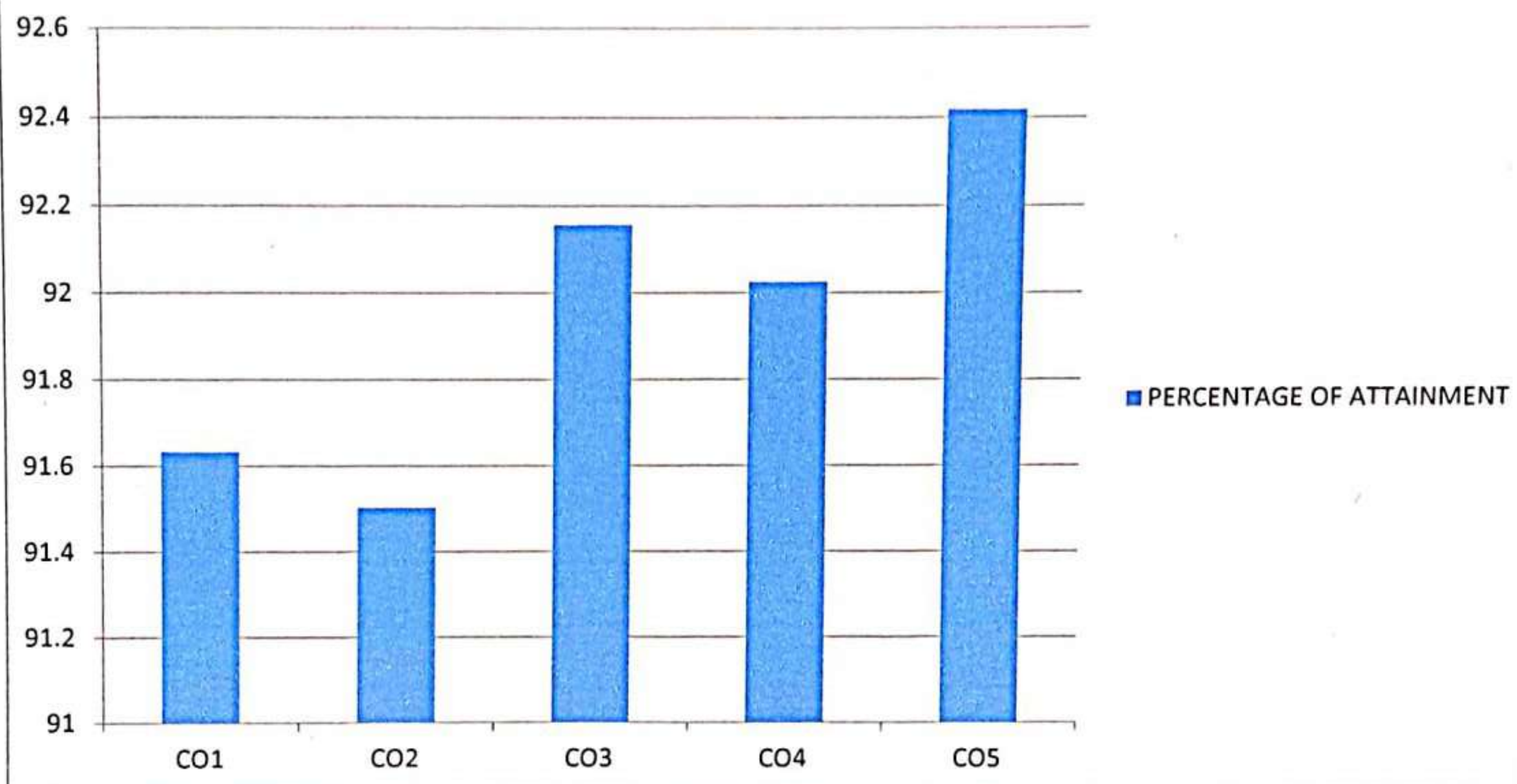
SUBJECT CODE : 16SCCPH5

NO.OF STUDENTS : 26

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	91.63
CO2	91.50
CO3	92.16
CO4	92.03
CO5	92.42



PERCENTAGE OF ATTAINMENT



COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME : Optics

SUBJECT CODE : 16SCCPH5

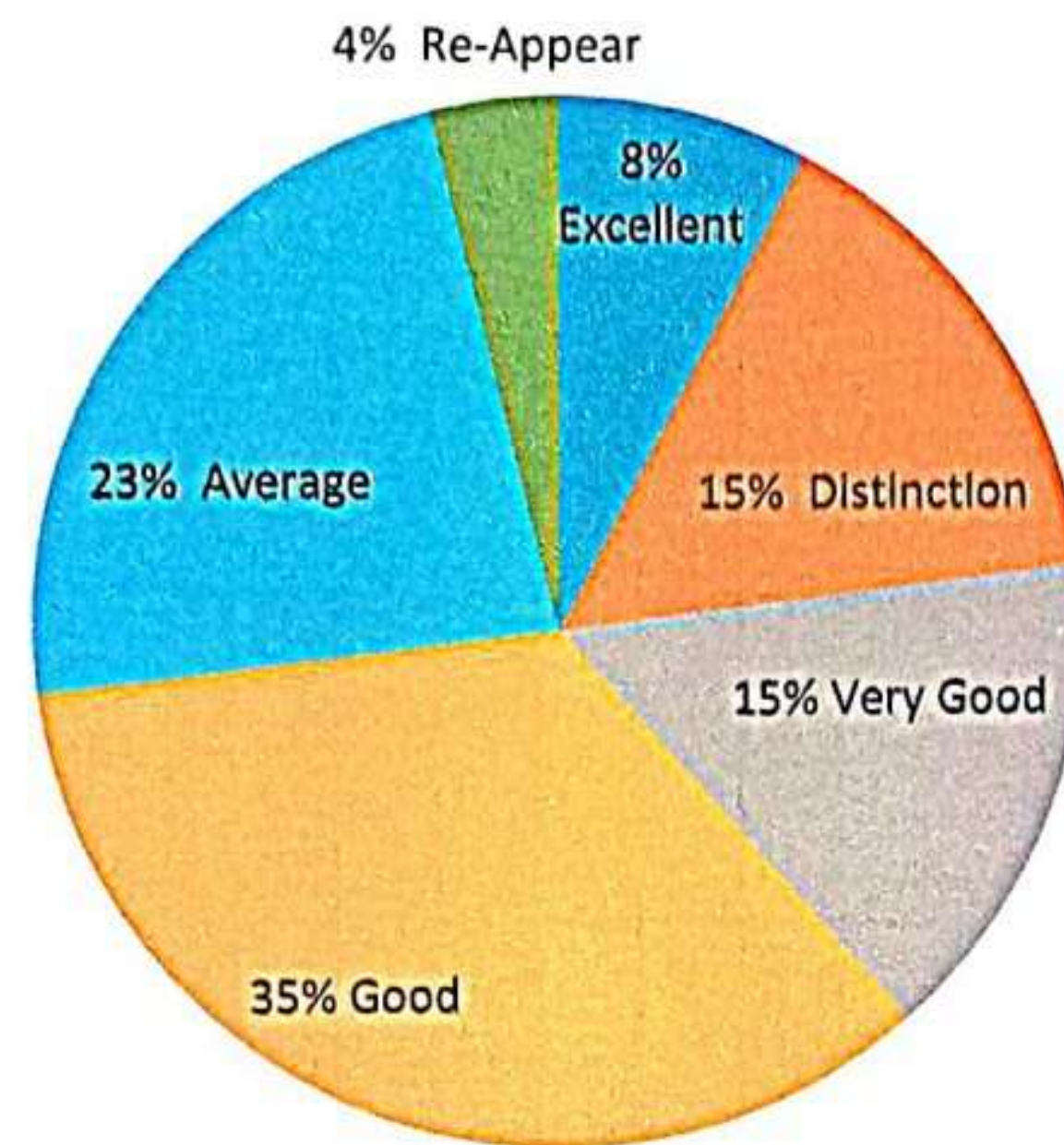
NO.OF STUDENTS : 26

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	2	EXCELLENT
75-79	4	DISTINCTION
70-74	4	VERY GOOD
60-69	9	GOOD
50-59	6	AVERAGE
0-49	1	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	7.69	EXCELLENT
75-79	15.38	DISTINCTION
70-74	15.38	VERY GOOD
60-69	34.62	GOOD
50-59	23.08	AVERAGE
0-49	3.85	RE-APPEAR



COURSE OUTCOME ASSESSMENT



- 80-89
- 75-79
- 70-74
- 60-69
- 50-59
- 0-49



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THANJAVUR - 613005

Attainment of program outcomes and course outcomes

Course Outcome-Programme Outcome Mapping

Department of Physics

16SCCPH6 - Atomic and Molecular physics

COURSE OUTCOME

CO1	Study properties of rays, production, charge calculation by experimental.
CO2	Fundamental of atom, structure, principles and effect of experiments.
CO3	Production and detection of x-rays, Laws of x-rays and characteristics of x-rays.
CO4	Properties of metals, photo electric effect, experimental arrangement and verification, applications.
CO5	LASER properties, concepts, experimental and applications.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	1	2	0	1	1
CO2	3	3	0	2	1
CO3	2	1	1	1	2
CO4	2	3	2	3	3
CO5	3	3	0	2	2
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.No	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB17S 436221	ABINASH S	2	3	2	2	2	11	44
2	CB17S 436223	ASWATHI B	4	4	5	4	5	22	88
3	CB17S 436224	BHARATHKUMAR R	5	3	3	4	3	18	72
4	CB17S 436225	CHANDRU P	4	4	4	4	5	21	84
5	CB17S 436226	DINESH K	2	2	2	2	2	10	40
6	CB17S 436227	GUNAL V	3	1	1	3	2	10	40
7	CB17S 436228	GUNASEKARAN A	3	2	1	3	2	11	44
8	CB17S 436229	HARIPRASATH S	2	3	2	3	1	11	44
9	CB17S 436230	KAVIYARASAN K	2	3	3	2	2	12	48
10	CB17S 436231	KEERTHANA B	5	5	5	5	5	25	100
11	CB17S 436232	MAHADEV R	3	3	5	4	3	18	72
12	CB17S 436233	MAHESWARI D	5	4	5	5	5	24	96
13	CB17S 436234	MANISHA E	3	4	4	3	3	17	68
14	CB17S 436235	MUTHUKUMAR R	3	2	2	2	2	11	44
15	CB17S 436236	NAVEENKUMAR M	2	2	2	1	3	10	40



16	CB17S 436237	PANDITHURAI S	2	2	2	2	2	10	40
17	CB17S 436238	RAJKUMAR R	2	2	3	2	2	11	44
18	CB17S 436239	RENGARAJ R	3	1	1	3	2	10	40
19	CB17S 436240	REYON FRANCES B	5	5	5	4	5	24	96
20	CB17S 436241	ROSHINI BEGUM M	4	5	3	4	4	20	80
21	CB17S 436242	SHALINI K	5	4	5	5	5	24	96
22	CB17S 436243	SORNAMUHI G	3	4	4	3	2	16	64
23	CB17S 436244	SUDHAKAR S	3	3	3	2	2	13	52
24	CB17S 436245	VIJAYKUMAR T	2	2	2	2	2	10	40
25	CB17S 436246	VINODHA S	5	4	5	4	5	23	92
26	CB17S 436247	VISNUPRAKASH K	3	3	2	2	2	12	48
Average			3.27	3.08	3.12	3.08	3.00		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.27	75	78.27	92.08
CO2	3.08	75	78.08	91.86
CO3	3.12	75	78.12	91.91
CO4	3.08	75	78.08	91.86
CO5	3	75	78	91.76

Course Attainment for B.Sc Physics

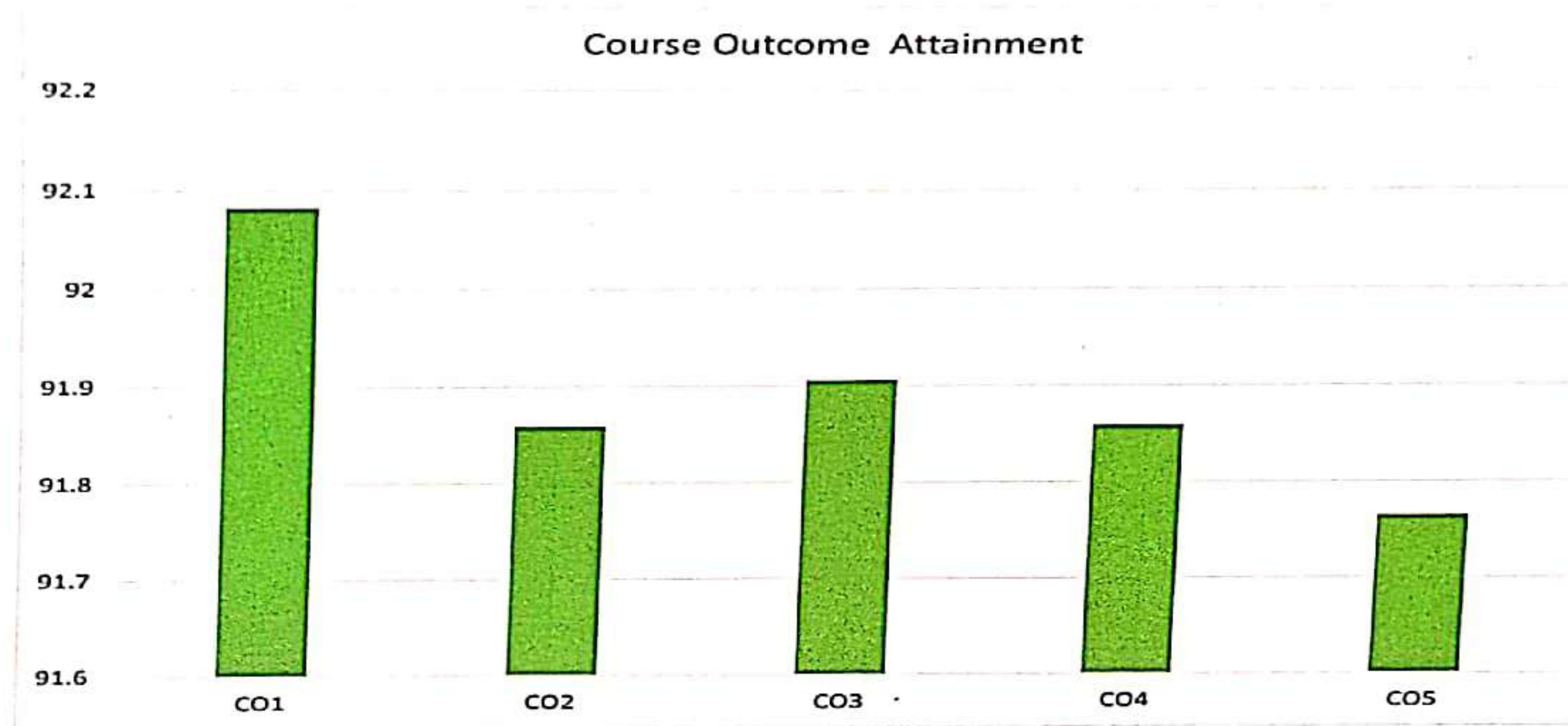
Subject Name: Atomic and Molecular Physics

Subject Code: 16SCCPH6

Number of Students: 26

Course Outcome	Percentage of Attainment
CO1	92.08
CO2	91.86
CO3	91.91
CO4	91.86
CO5	91.76





Course Attainment for B.Sc Physics

Subject Name: Atomic and Molecular Physics

Subject Code: 16SCCPH6

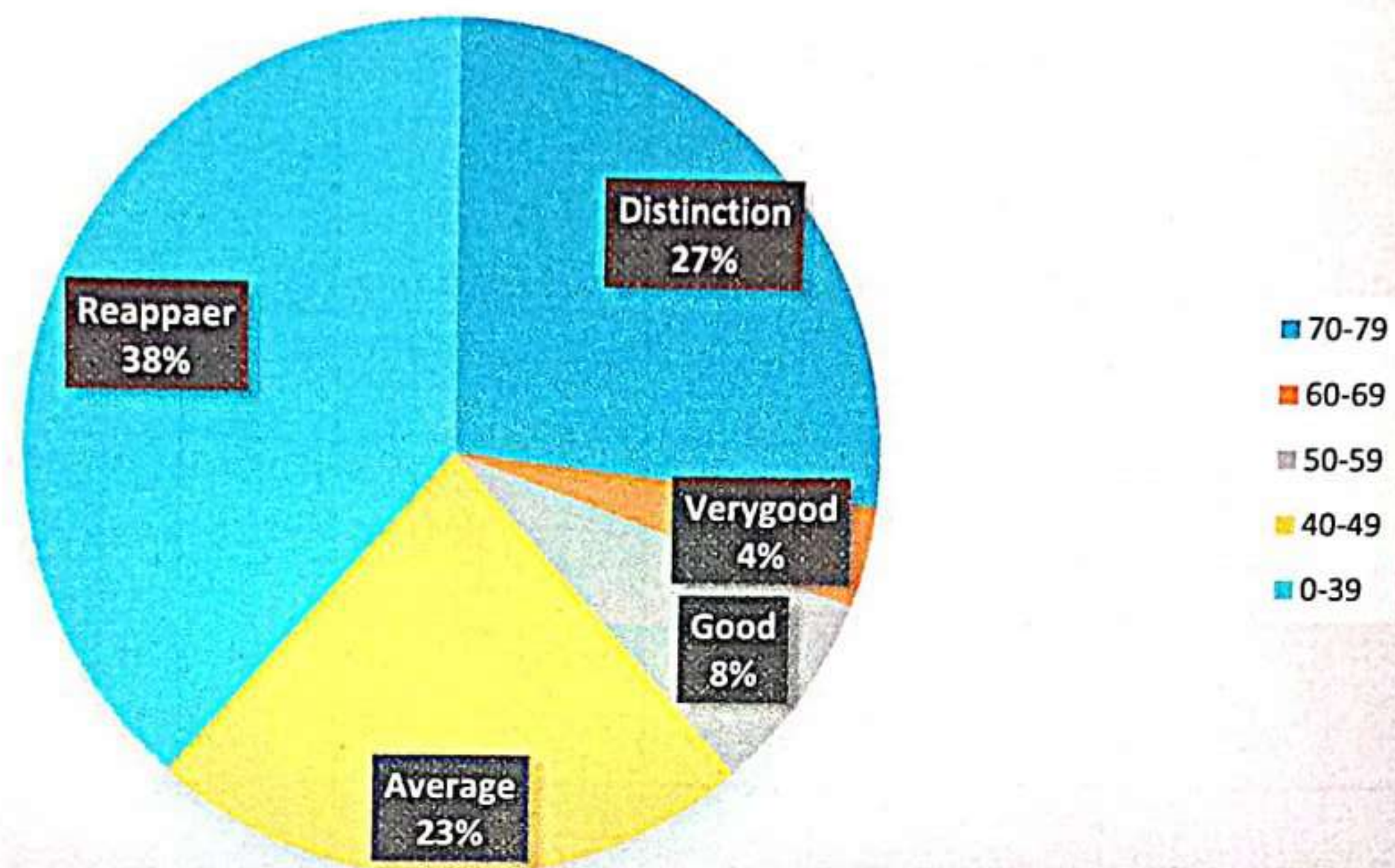
Number of Students: 26

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	7	Distinction
60-69	1	Very Good
50-59	2	Good
40-49	6	Average
0-39	10	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
70-79	26.92	Distinction
60-69	3.85	Very Good
50-59	7.69	Good
40-49	23.08	Average
0-39	38.46	Reappear



Course Outcome Assessment



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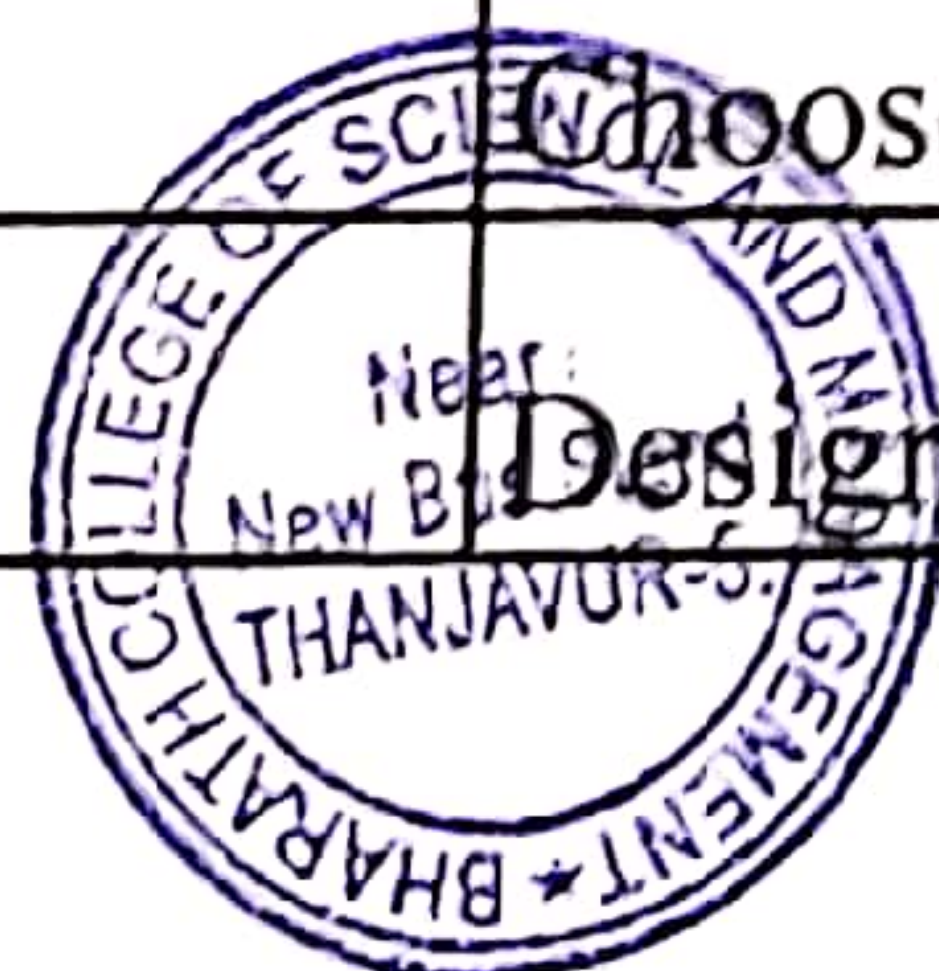
PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH7-ELECTRONICS

COURSE OUTCOME

CO1	To understand the features of semiconductor and zener diode and their fundamental concepts
CO2	Design different types of oscillator.
CO3	Understand the working of basic gates.
CO4	Choose flip flop for a particular application.
CO5	Design operational amplifier circuits and to analyse their properties.



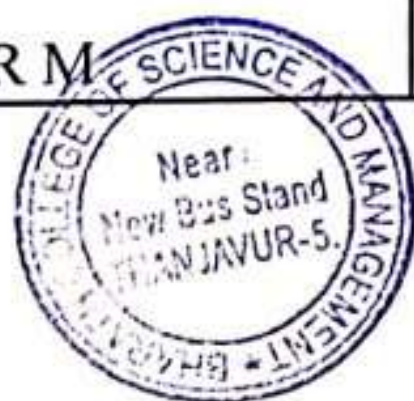
PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	3	3	0	1	2
CO2	1	3	2	2	1
CO3	0	1	1	3	2
CO4	0	1	2	1	3
CO5	0	0	0	2	2
Average	0.8	1.6	1	1.8	2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB17S 436221	ABINASH S	3	3	3	3	3	15	60
CB17S 436223	ASWATHI B	4	5	5	5	5	24	96
CB17S 436224	BHARATHKUMAR R	5	4	4	4	4	21	84
CB17S 436225	CHANDRU P	4	5	5	5	5	24	96
CB17S 436226	DINESH K	2	3	3	3	3	14	56
CB17S 436227	GUNAL V	3	3	3	3	3	15	60
CB17S 436228	GUNASEKARAN A	2	3	3	3	3	14	56
CB17S 436229	HARIPRASATH S	2	3	3	3	3	14	56
CB17S 436230	KAVIYARASAN K	3	3	3	4	4	17	68
CB17S 436231	KEERTHANA B	5	5	5	5	3	23	92
CB17S 436232	MAHADEV R	4	4	4	4	3	19	76
CB17S 436233	MAHESWARI D	5	3	5	5	5	23	92
CB17S 436234	MANISHA E	4	4	4	4	4	20	80
CB17S 436235	MUTHUKUMAR R	3	3	3	2	3	14	56
CB17S 436236	NAVEENKUMAR M	4	2	3	2	2	13	52



CB17S 436237	PANDITHURAI S	4	2	3	3	3	15	60
CB17S 436238	RAJKUMAR R	3	3	3	3	3	15	60
CB17S 436239	RENGARAJ R	3	3	3	3	2	14	56
CB17S 436240	REYON FRANCES B	3	5	5	5	5	23	92
CB17S 436241	ROSHINI BEGUM M	4	3	3	3	3	16	64
CB17S 436242	SHALINI K	5	3	5	5	5	23	92
CB17S 436243	SORNAMUHI G	3	4	4	3	4	18	72
CB17S 436244	SUDHAKAR S	3	3	3	3	3	15	60
CB17S 436245	VIJAYKUMAR T	4	4	3	3	3	17	68
CB17S 436246	VINODHA S	5	4	5	4	5	23	92
CB17S 436247	VISNUPRAKASH K	3	3	3	3	3	15	60
Average		3.58	3.46	3.69	3.58	3.54		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.58	75	78.58	92.45
CO2	3.46	75	78.46	92.31
CO3	3.69	75	78.69	92.58
CO4	3.58	75	78.58	92.45
CO5	3.54	75	78.54	92.40

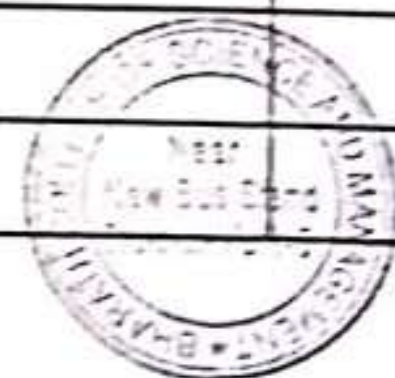
COURSE ATTAINMENT FOR B.Sc physics

SUBJECT NAME: ELECTRONICS

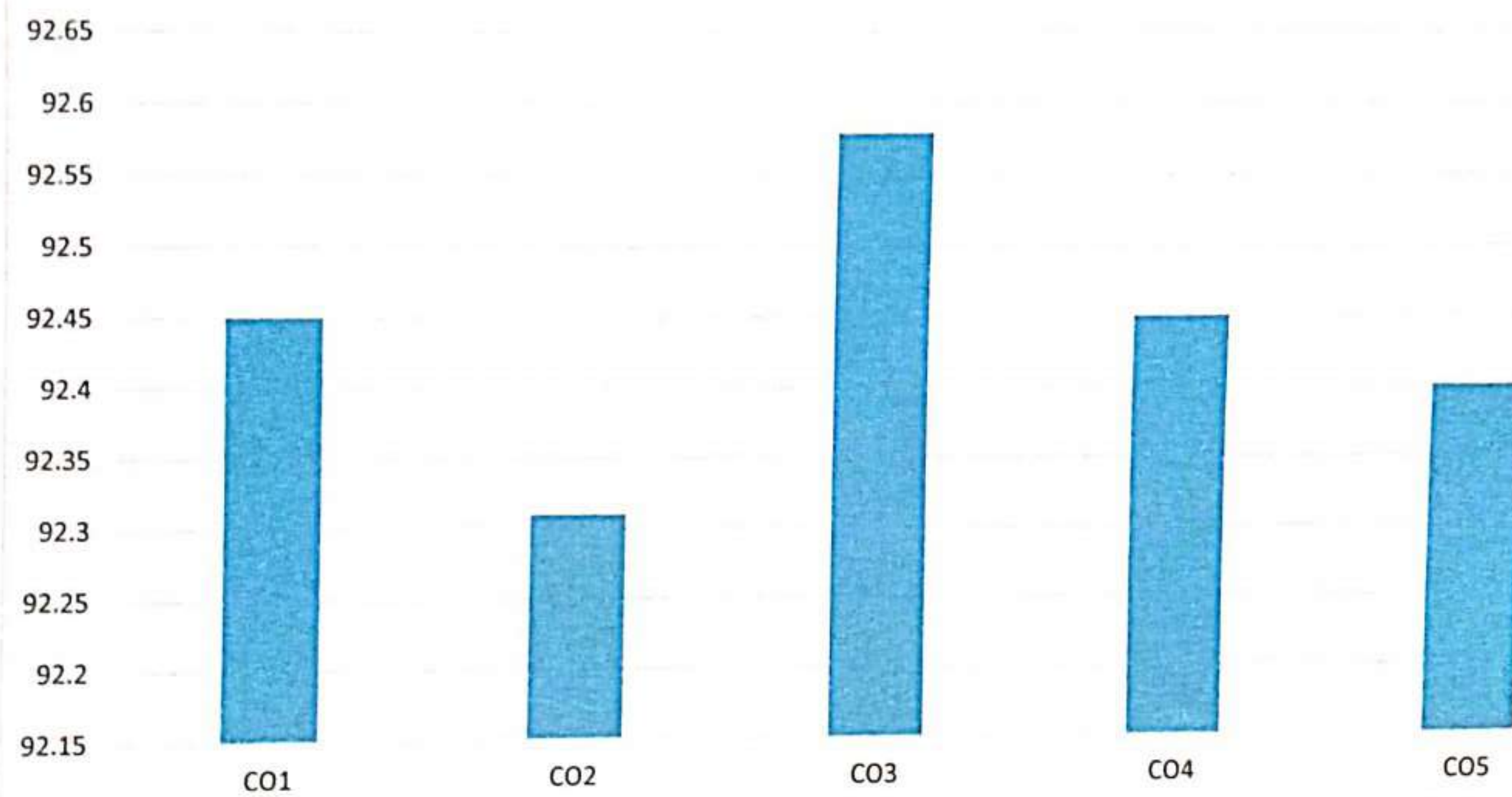
SUBJECT CODE :16SCCPH7

NO OF STUDENTS:26

COURSE OUTCOME	PERCENTAGE ATTAINMENT
CO1	92.45
CO2	92.31
CO3	92.58
CO4	92.45
CO5	92.4

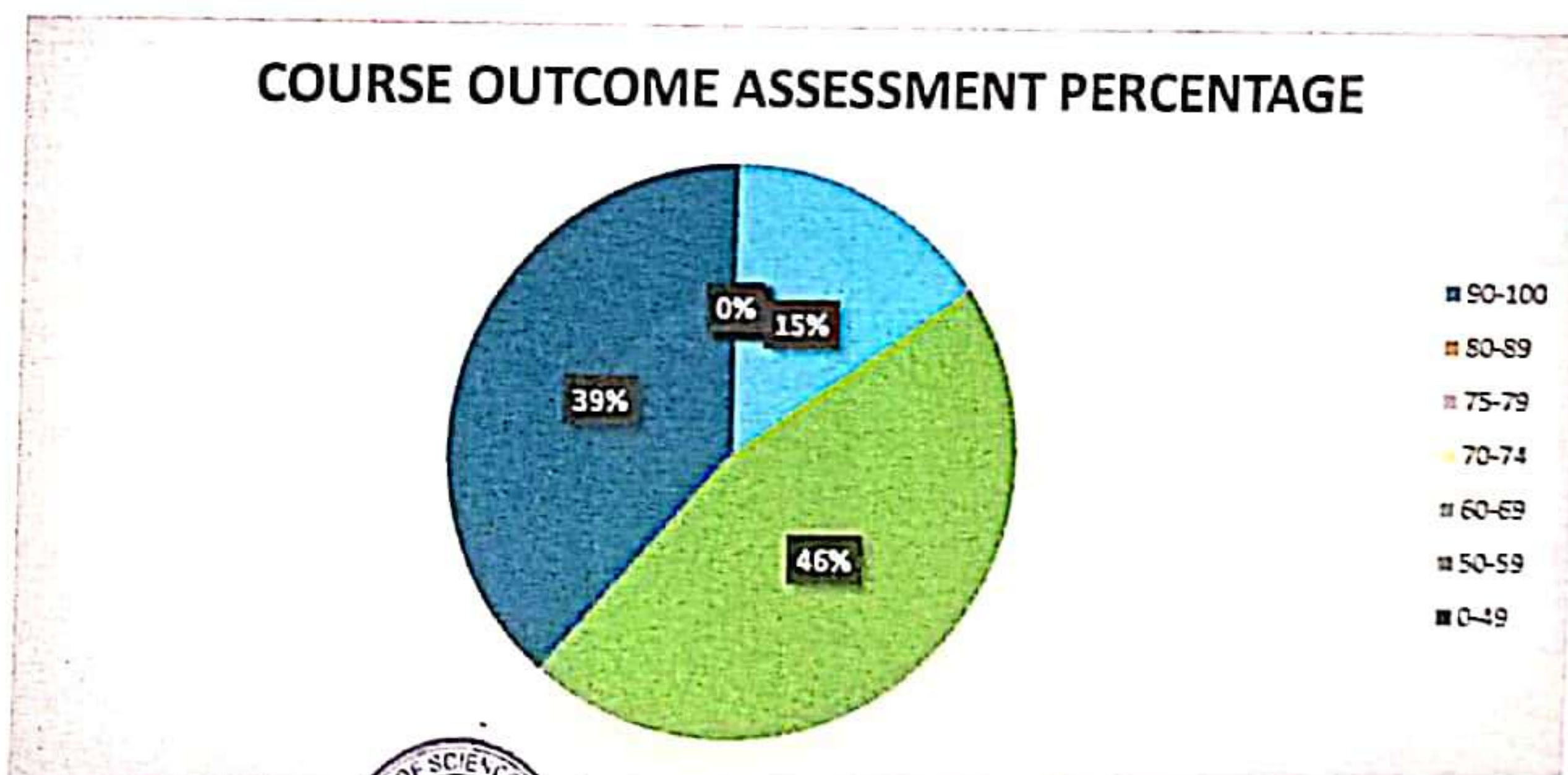


PERCENTAGE ATTAINMENT



COURSE ATTAINMENT FOR B.Sc PHYSICS
 SUBJECT NAME:ELECTRONICS
 SUBJECT CODE:16SCCPH7
 NO OF STUDENTS:26

COURSE OUTCOME ASSESSMENT		
CATEGORY	PERCENTAGE	STATUS
90-100	0	OUTSTANDING
80-89	0	EXCELLENT
75-79	0	DISTINCTION
70-74	0	VERY GOOD
60-69	4	GOOD
50-59	12	AVERAGE
0-49	10	REAPPEAR



[Signature]
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BHARATH COLLEGE OF SCIENCE AND MANAGEMENT
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THANJAVUR - 613005

16SCCPH8- Nuclear physics

COURSE OUTCOME

CO1	The basic nuclear properties, Nuclear models
CO2	Radioactive decay law, types of decay and properties of neutrino.
CO3	Describe particle detectors and accelerators.
CO4	Nuclear reactions, conservation laws, Q-value calculations, Nuclear reactor.
CO5	Elementary particles, conservation laws, Quark model.



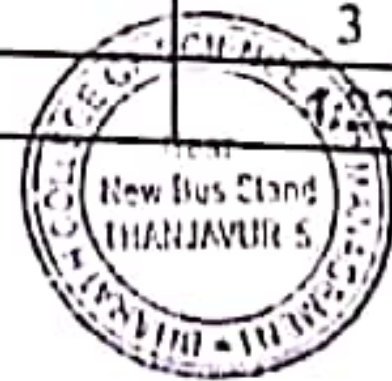
PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	0	2	0	0	2
CO2	2	2	0	1	1
CO3	0	0	1	2	1
CO4	1	1	0	1	2
CO5	0	1	1	0	0
Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal(15)	Seminar(5)	Assignment(5)
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB17S 436221	ABINASH S	4	3	4	4	5	20	80
CB17S 436223	ASWATHI B	5	5	5	5	5	25	100
CB17S 436224	BHARATHKUMAR R	5	5	4	4	4	22	88
CB17S 436225	CHANDRU P	5	5	5	5	4	24	96
CB17S 436226	DINESH K	4	4	3	5	4	20	80
CB17S 436227	GUNAL V	3	5	4	4	4	20	80
CB17S 436228	GUNASEKARAN A	4	4	4	4	4	20	80
CB17S 436229	HARIPRASATH S	4	4	5	5	4	22	88
CB17S 436230	KAVIYARASAN K	3	3	4	5	5	20	80
CB17S 436231	KEERTHANA B	5	5	5	5	5	25	100
CB17S 436232	MAHADEV R	5	5	3	3	4	20	80
CB17S 436233	MAHESWARI D	5	5	5	5	5	25	100
CB17S 436234	MANISHA E	5	4	5	4	4	22	88
CB17S 436235	MUTHUKUMAR R	4	3	3	5	5	20	80
CB17S 436236	NAVEENKUMAR M	4	3	5	5	3	20	80
CB17S 436237	PANDITHURAI S	3	4	5	3	5	20	80
CB17S 436238	RAJKUMAR R	4	5	5	3	3	20	80
CB17S 436239	RENGARAJ R	5	4	5	3	3	20	80
CB17S 436240	REYON FRANCES B	5	5	5	5	5	25	100
CB17S 436241	ROSHNI BEGUM M	4	4	5	4	5	22	88
CB17S 436242	SHALINI K	4	4	4	4	4	20	80
CB17S 436243	SORNAMUTHI G	5	5	3	3	4	20	80
CB17S 436244	SUDHAKAR S	3	4	3	5	5	20	80
CB17S 436245	VIJAYKUMAR T	4	3	5	3	5	20	80
CB17S 436246	VINODHA S	5	5	4	4	4	22	88
CB17S 436247	VISNUPRAKASH K	3	5	5	4	3	20	80
Average		4.33	4.33	4.33	3.89	4.22		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.22	75	79.22	93.20
CO2	4.33	75	79.33	93.33
CO3	4.33	75	79.33	93.33
CO4	3.89	75	78.89	92.81
CO5	4.22	75	79.22	93.20

Course Attainment for B.Sc Physics

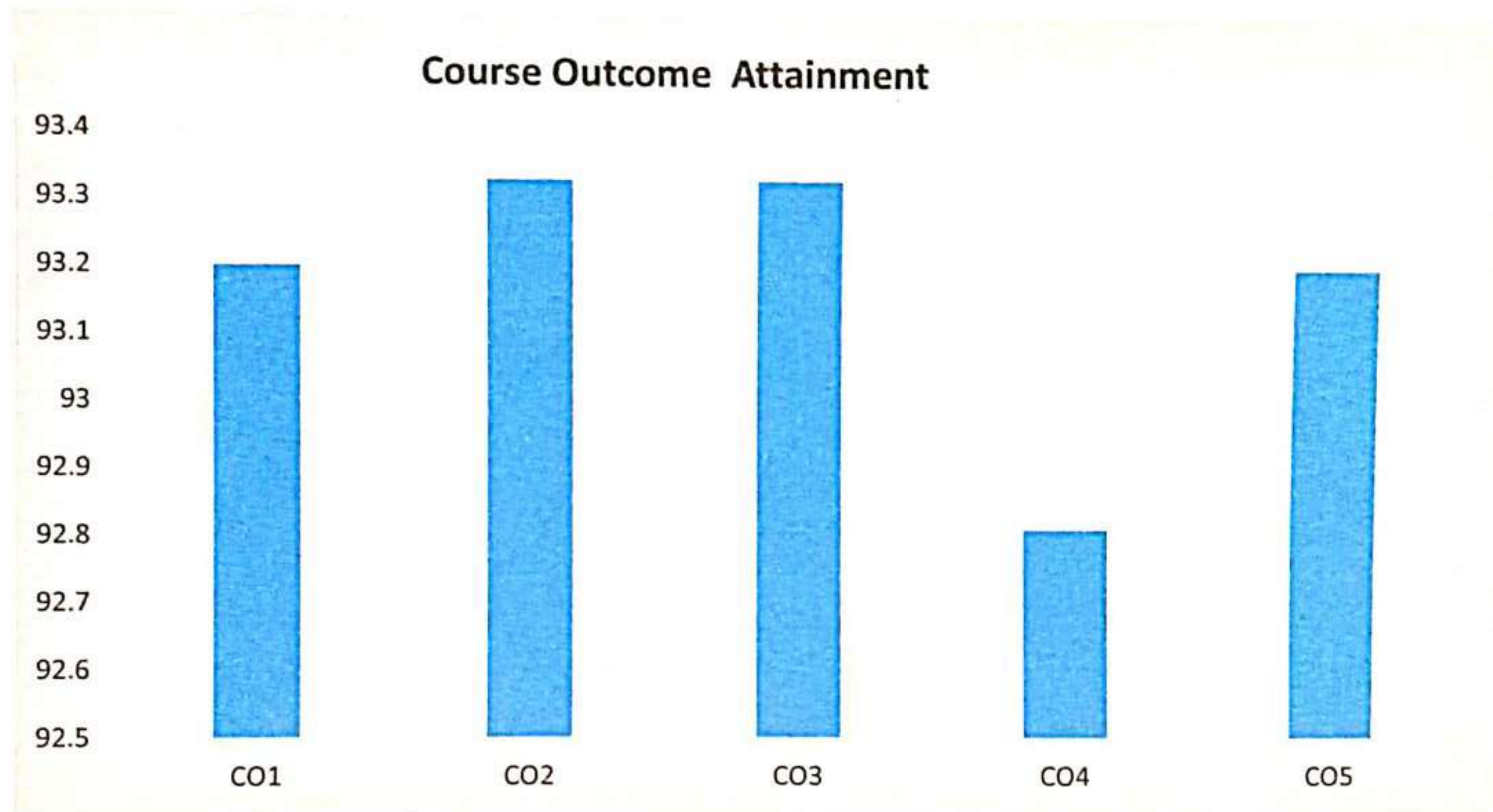
Subject Name: Nuclear physics

Subject Code: 16SCCPH18

Number of Students: 26

Course Outcome	Percentage of Attainment
CO1	93.20
CO2	93.33
CO3	93.33
CO4	92.81
CO5	93.20





Course Attainment for B.Sc Physics

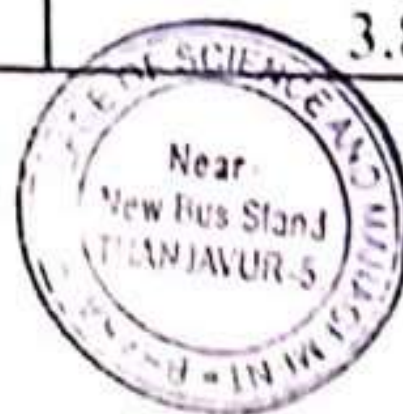
Subject Name: Nuclear physics

Subject Code: 16SCCPH8

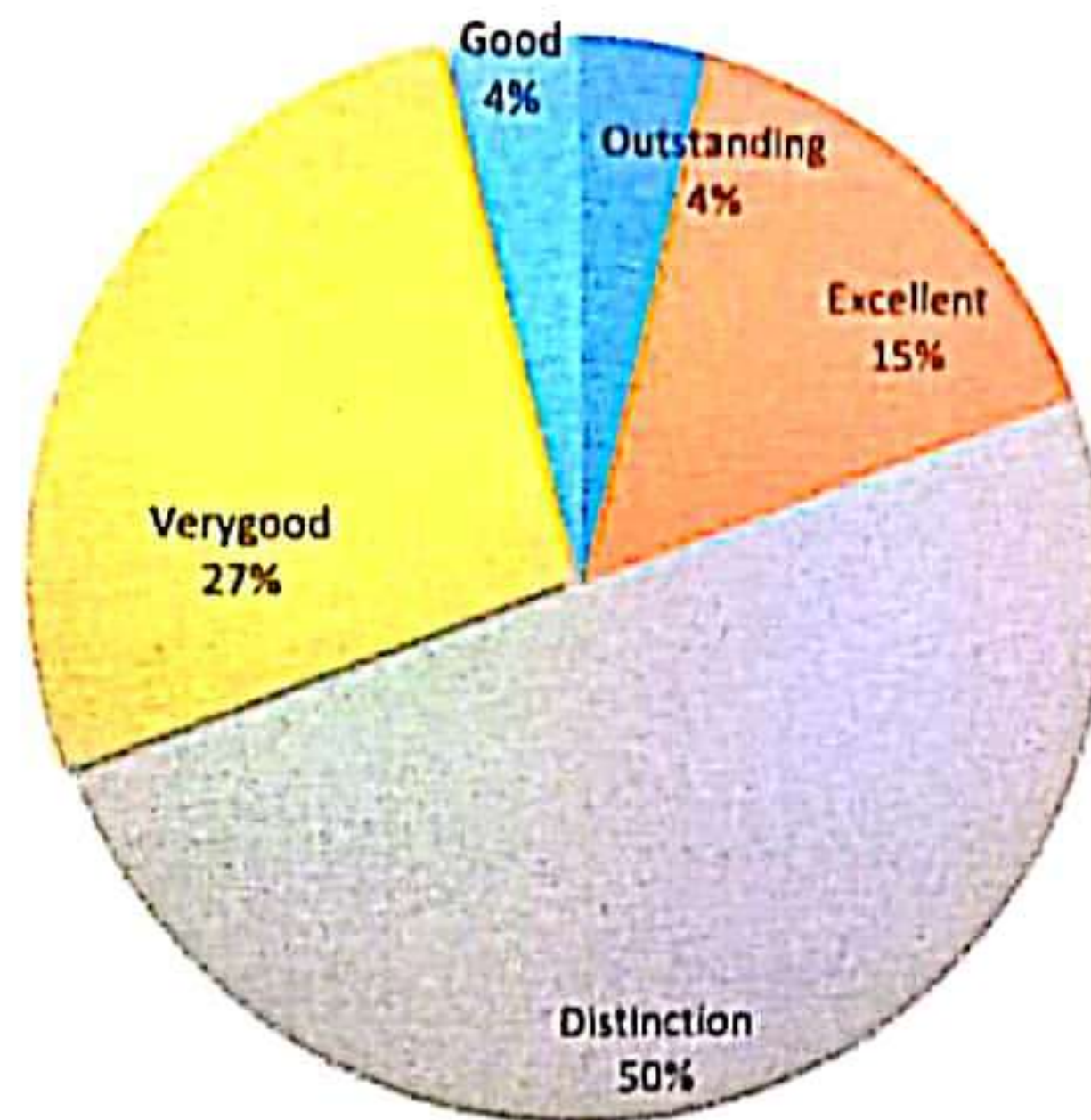
Number of Students: 26

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	1	Outstanding
80-89	4	Excellent
70-79	13	Distinction
60-69	7	Very Good
50-59	1	Good
40-49	0	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	3.85	Outstanding
80-89	15.38	Excellent
70-79	50.00	Distinction
60-69	26.92	Very Good
50-59	3.85	Good

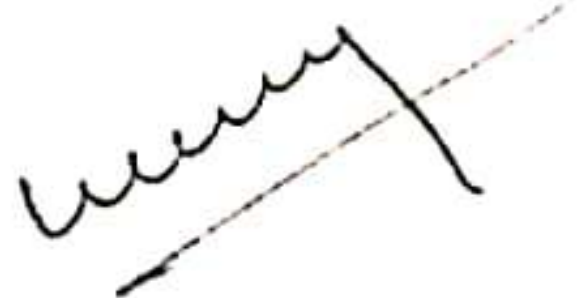


Course Outcome Assessment Percentage



- 90-100
- 80-89
- 70-79
- 60-69
- 50-59




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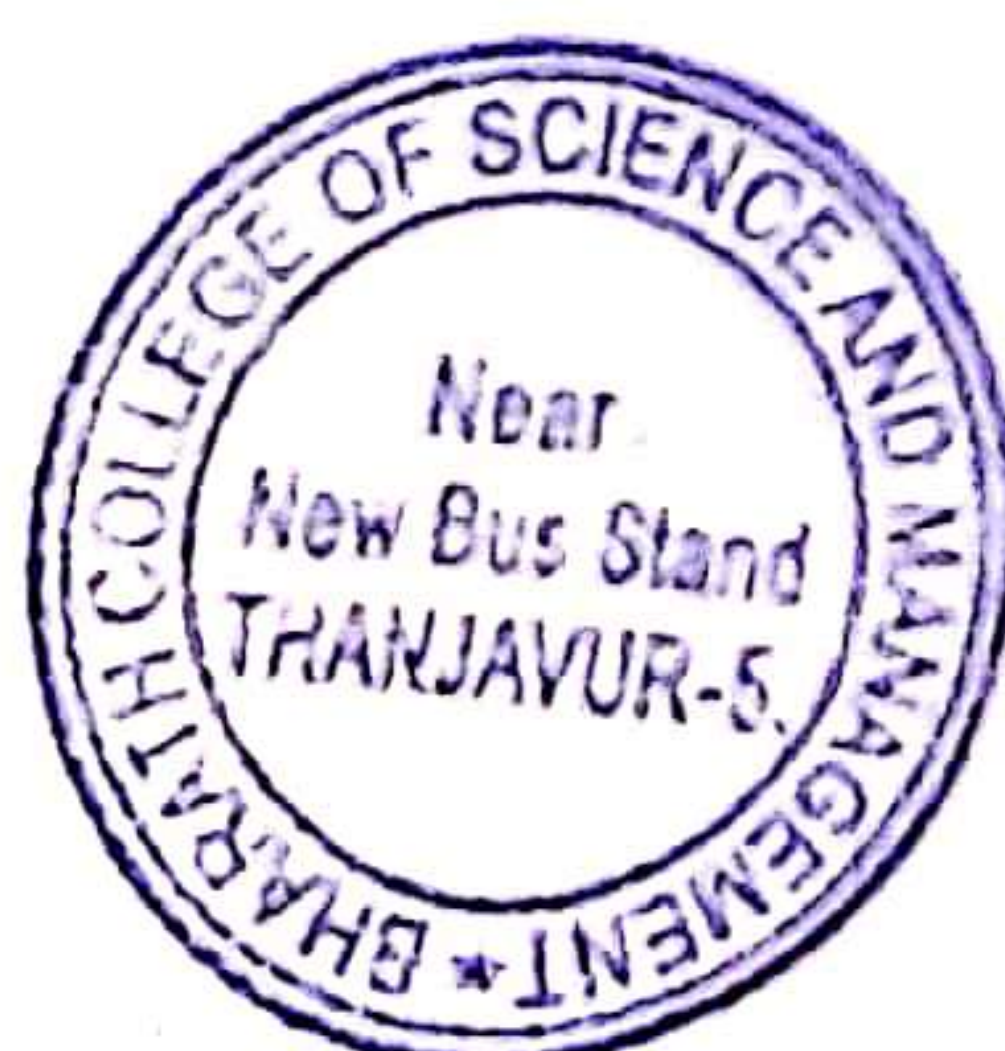


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16SCCPH9 - Theoretical Physics

COURSE OUTCOME

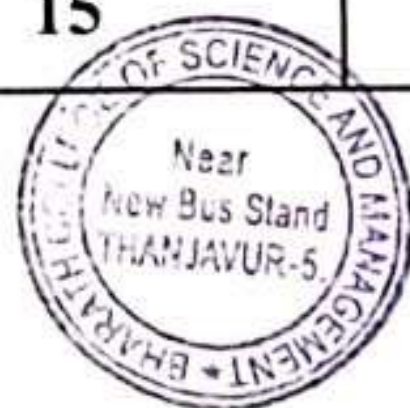
CO1	Study fundamental laws, Conservation theorem and Symmetry properties.
CO2	To understand the characteristics of generalized momentum and Cyclic co-ordinate.
CO3	To understand experimental study of matter waves and Debroglie relation.
CO4	To understand the development of Schrodinger wave equation and properties of wave function
CO5	To study the foundation of Quantum system.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	2	2	2	1	1
CO2	1	1	0	2	1
CO3	2	1	1	1	2
CO4	2	3	2	1	3
CO5	3	3	0	2	3
Average	2	2	1	1.4	2

Internal Examination Mark Distribution for each Course outcome

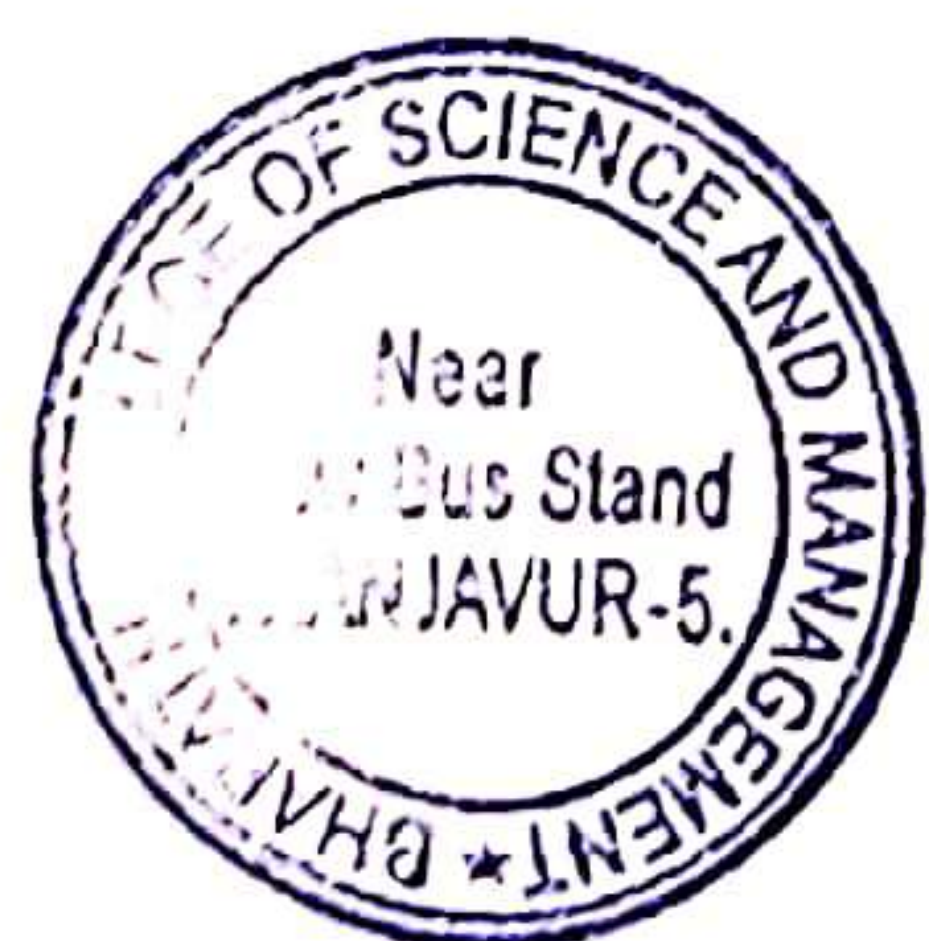
CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Name	Register No	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
ABINASH S	CB17S 436221	5	5	4	5	2	21	84
ASWATHI B	CB17S 436223	5	5	5	5	5	25	100
BHARATHKUMAR R	CB17S 436224	5	5	5	4	5	24	96
CHANDRU P	CB17S 436225	5	5	4	4	5	23	92
DINESH K	CB17S 436226	5	5	5	4	2	21	84
GUNAL V	CB17S 436227	5	5	5	3	4	22	88
GUNASEKARAN A	CB17S 436228	5	5	5	3	2	20	80
HARIPRASATH S	CB17S 436229	2	5	5	5	3	20	80
KAVIYARASAN K	CB17S 436230	5	5	5	3	2	20	80
KEERTHANA B	CB17S 436231	5	5	5	5	5	25	100
MAHADEV R	CB17S 436232	5	5	5	4	4	23	92
MAHESWARI D	CB17S 436233	5	5	5	5	5	25	100
MANISHA E	CB17S 436234	5	4	5	3	3	20	80
MUTHUKUMAR R	CB17S 436235	5	5	5	4	2	21	84
NAVEENKUMAR M	CB17S 436236	5	4	4	5	3	20	80



PANDITHURAI S	CB17S 436237	5	5	5	4	2	21	84
RAJKUMAR R	CB17S 436238	5	5	5	4	2	21	84
RENGARAJ R	CB17S 436239	5	5	4	4	2	20	80
REYON FRANCES B	CB17S 436240	5	5	5	5	5	25	100
ROSHINI BEGUM M	CB17S 436241	4	5	3	4	4	20	80
SHALINI K	CB17S 436242	3	4	5	5	5	22	88
SORNAMUHI G	CB17S 436243	5	4	4	5	3	21	84
SUDHAKAR S	CB17S 436244	4	4	4	4	4	20	80
VIJAYKUMAR T	CB17S 436245	5	5	4	4	2	20	80
VINODHA S	CB17S 436246	3	3	5	4	5	20	80
VISNUPRAKASH K	CB17S 436247	4	4	4	4	4	20	80
Average		4.58	4.69	4.62	4.19	3.46		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.58	75	79.58	93.62
CO2	4.69	75	79.69	93.76
CO3	4.62	75	79.62	93.67
CO4	4.19	75	79.19	93.17
CO5	3.46	75	78.46	92.31

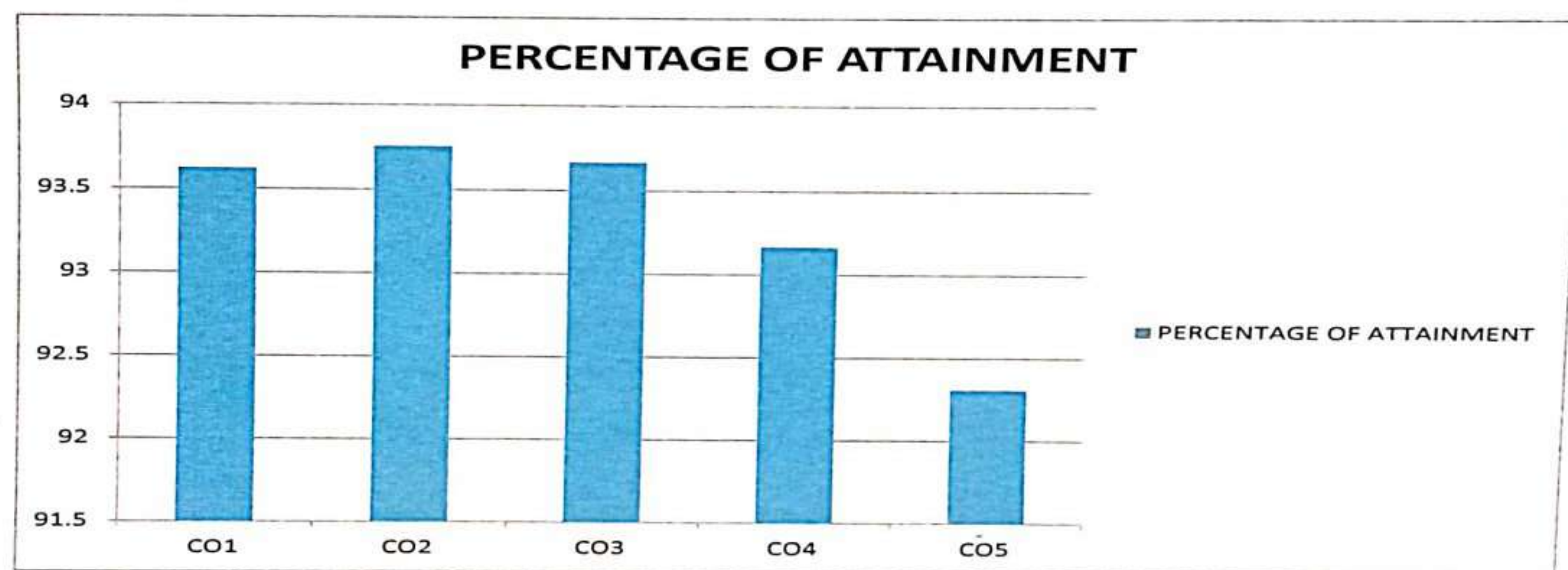
SUBJECT NAME: Theoretical Physics

SUBJECT CODE : 16SCCPH9

NO.OF STUDENTS : 26

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	93.62
CO2	93.76
CO3	93.67
CO4	93.17
CO5	92.31





COURSE ATTAINMENT FOR B.Sc Physics

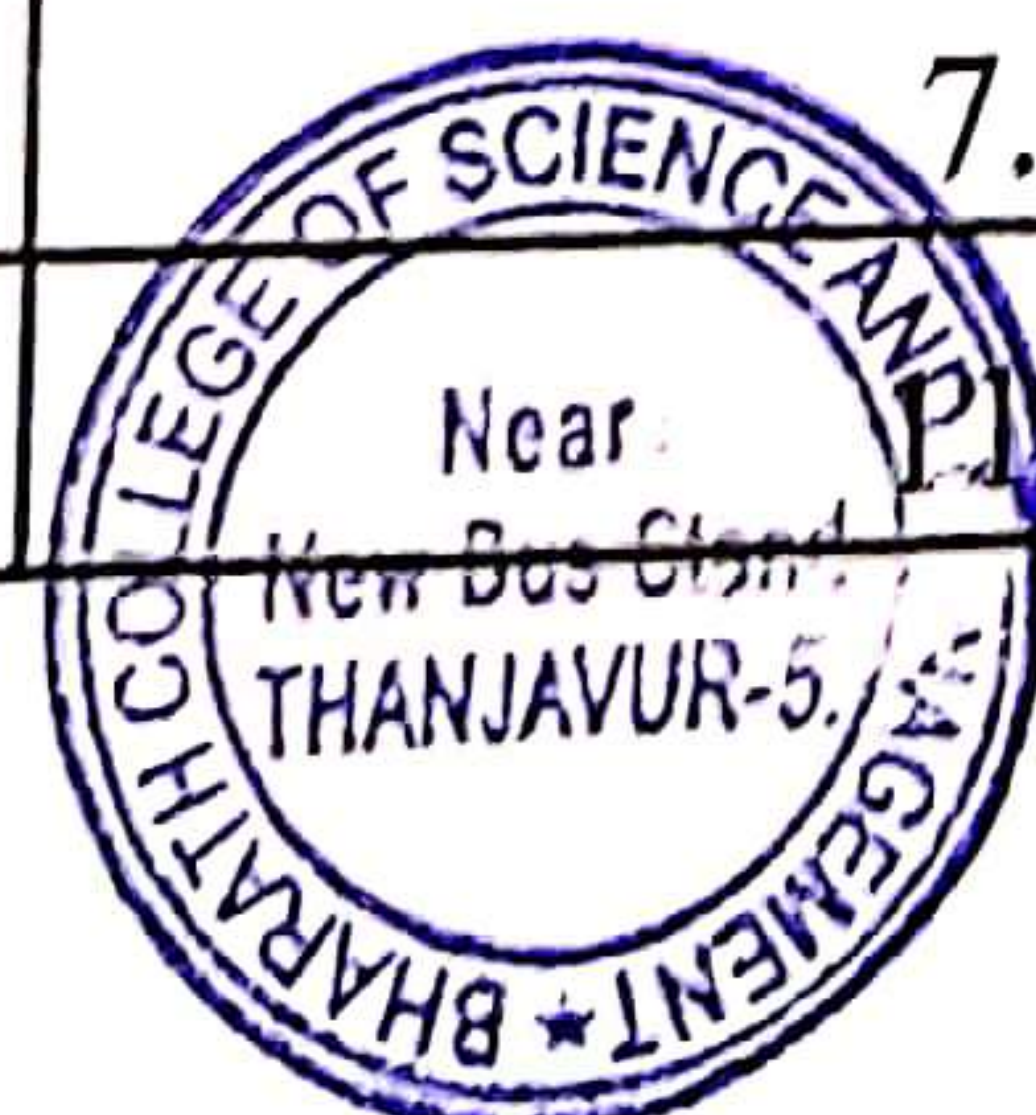
SUBJECT NAME : Theoretical Physics

SUBJECT CODE : 16SCCPH9

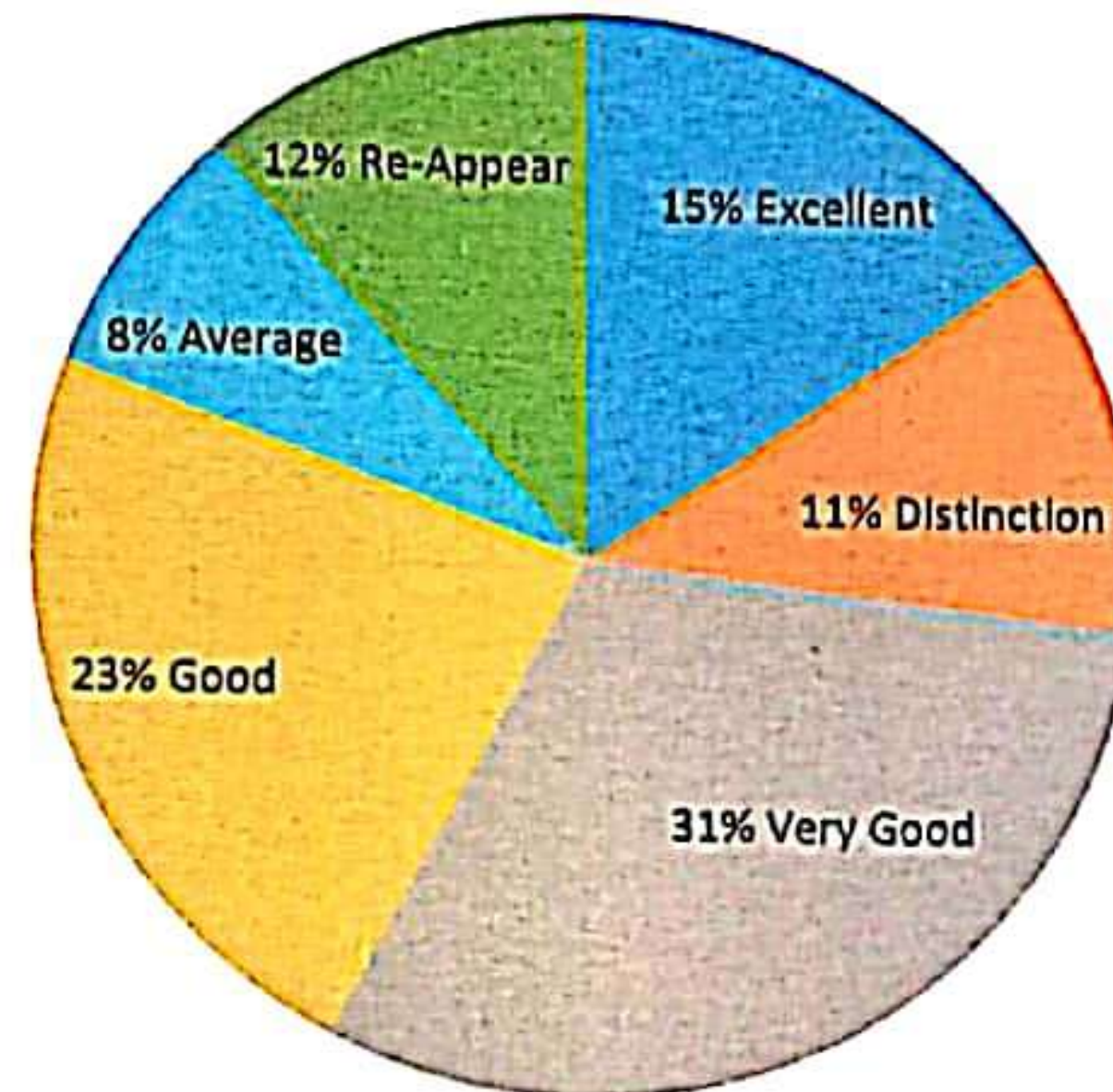
NO.OF STUDENTS : 26

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	4	EXCELLENT
75-79	3	DISTINCTION
70-74	8	VERY GOOD
60-69	6	GOOD
50-59	2	AVERAGE
0-49	3	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
80-89	15.38	EXCELLENT
75-79	11.54	DISTINCTION
70-74	30.77	VERY GOOD
60-69	23.08	GOOD
50-59	7.69	AVERAGE
0-49	11.54	RE-APPEAR



COURSE OUTCOME ASSESSMENT



- 80-89
- 75-79
- 70-74
- 60-69
- 50-59
- 0-49



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16SMBEPH3 Communication Physics

COURSE OUTCOME

CO1	To understand the made on the memory and Basic components of computer
CO2	To understand the architecture and basic instructions of 8085
CO3	Write assembly language for the microprocessor intel 8085
CO4	To understand the basic structure of C and variables, constant
CO5	To under stand the basic instruction and branch statements

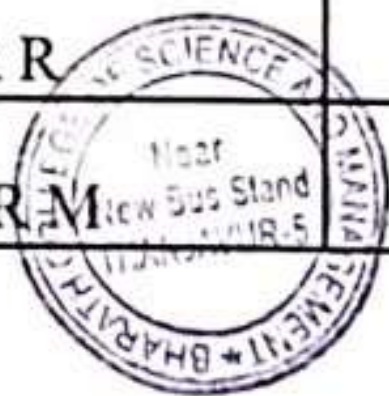
PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	0	1	0	1
CO2	2	0	1	0	0
CO3	0	1	1	1	1
CO4	1	2	0	1	0
CO5	1	0	0	1	1
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.NO	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB17S 436221	ABINASH S	4	4	4	5	5	22	88
2	CB17S 436223	ASWATHI B	5	5	5	5	5	25	100
3	CB17S 436224	BHARATHKUMAR R	5	5	4	4	4	22	88
4	CB17S 436225	CHANDRU P	4	5	5	5	5	24	96
5	CB17S 436226	DINESH K	4	4	4	4	4	20	80
6	CB17S 436227	GUNAL V	4	4	4	4	5	21	84
7	CB17S 436228	GUNASEKARAN A	4	4	4	5	5	22	88
8	CB17S 436229	HARI PRASATH S	4	4	4	4	5	21	84
9	CB17S 436230	KAVIYARASAN K	4	4	5	5	4	22	88
10	CB17S 436231	KEERTHANA B	5	5	5	5	5	25	100
11	CB17S 436232	MAHADEV R	4	4	4	4	4	20	80
12	CB17S 436233	MAHESWARI D	5	5	5	5	5	25	100
13	CB17S 436234	MANISHA E	4	4	4	4	5	21	84
14	CB17S 436235	MUTHUKUMAR R	4	4	4	5	5	22	88
15	CB17S 436236	NAVEENKUMAR M	4	4	4	4	4	20	80



16	CB17S 436237	PANDITHURAI S	4	4	4	4	4	20	80
17	CB17S 436238	RAJKUMAR R	4	4	4	4	5	21	84
18	CB17S 436239	RENGARAJ R	4	4	4	4	4	20	80
19	CB17S 436240	REYON FRANCES B	5	5	5	5	5	25	100
20	CB17S 436241	ROSHINI BEGUM M	4	4	5	5	5	23	92
21	CB17S 436242	SHALINI K	5	5	5	5	4	24	96
22	CB17S 436243	SORNAMUHI G	4	4	4	5	5	22	88
23	CB17S 436244	SUDHAKAR S	5	5	4	4	4	22	88
24	CB17S 436245	VIJAYKUMAR T	4	4	4	4	5	21	84
25	CB17S 436246	VINODHA S	4	4	5	5	5	23	92
26	CB17S 436247	VISNUPRAKASH K	5	4	4	4	4	21	84
	Average		4.31	4.31	4.35	4.50	4.62		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.31	75	79.31	93.31
CO2	4.31	75	79.31	93.31
CO3	4.35	75	79.35	93.35
CO4	4.5	75	79.5	93.53
CO5	4.62	75	79.62	93.67

Course Attainment for B.Sc Physics

Subject Name: Communication Physics

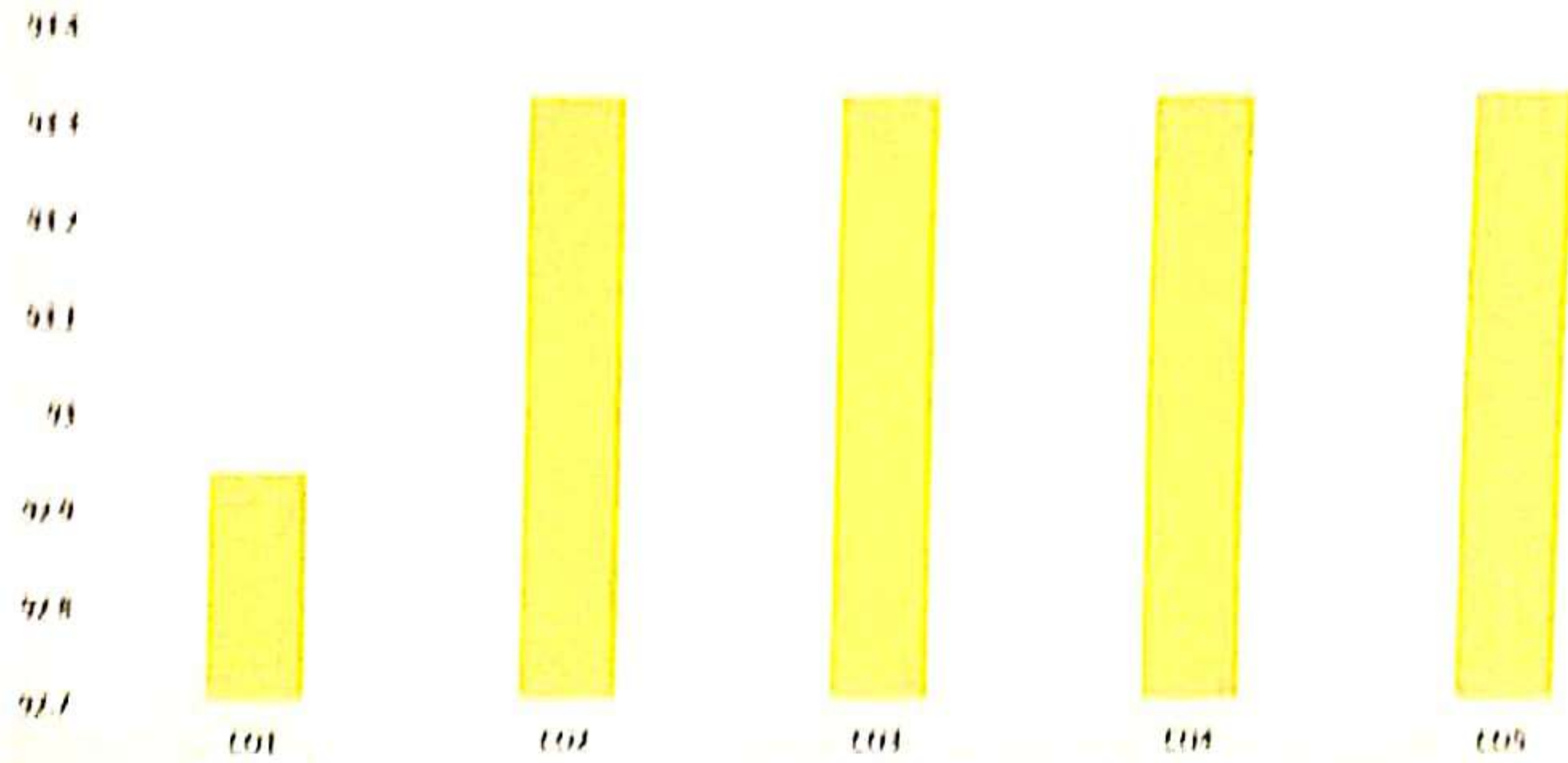
Subject Code: 16SMBEPH3

Number of Students: 26

Course Outcome	Percentage of Attainment
CO1	93.31
CO2	93.31
CO3	93.35
CO4	93.53
CO5	93.67



Percentage of Attainment



Course Attainment for B.Sc Physics

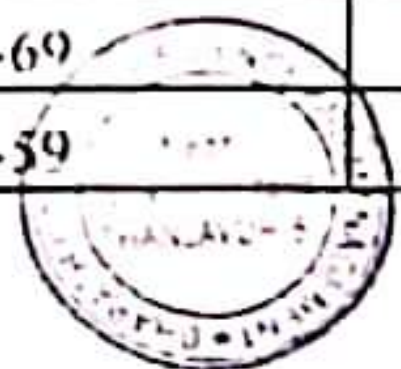
Subject Name: Communication Physics

Subject Code: 16SMBEP113

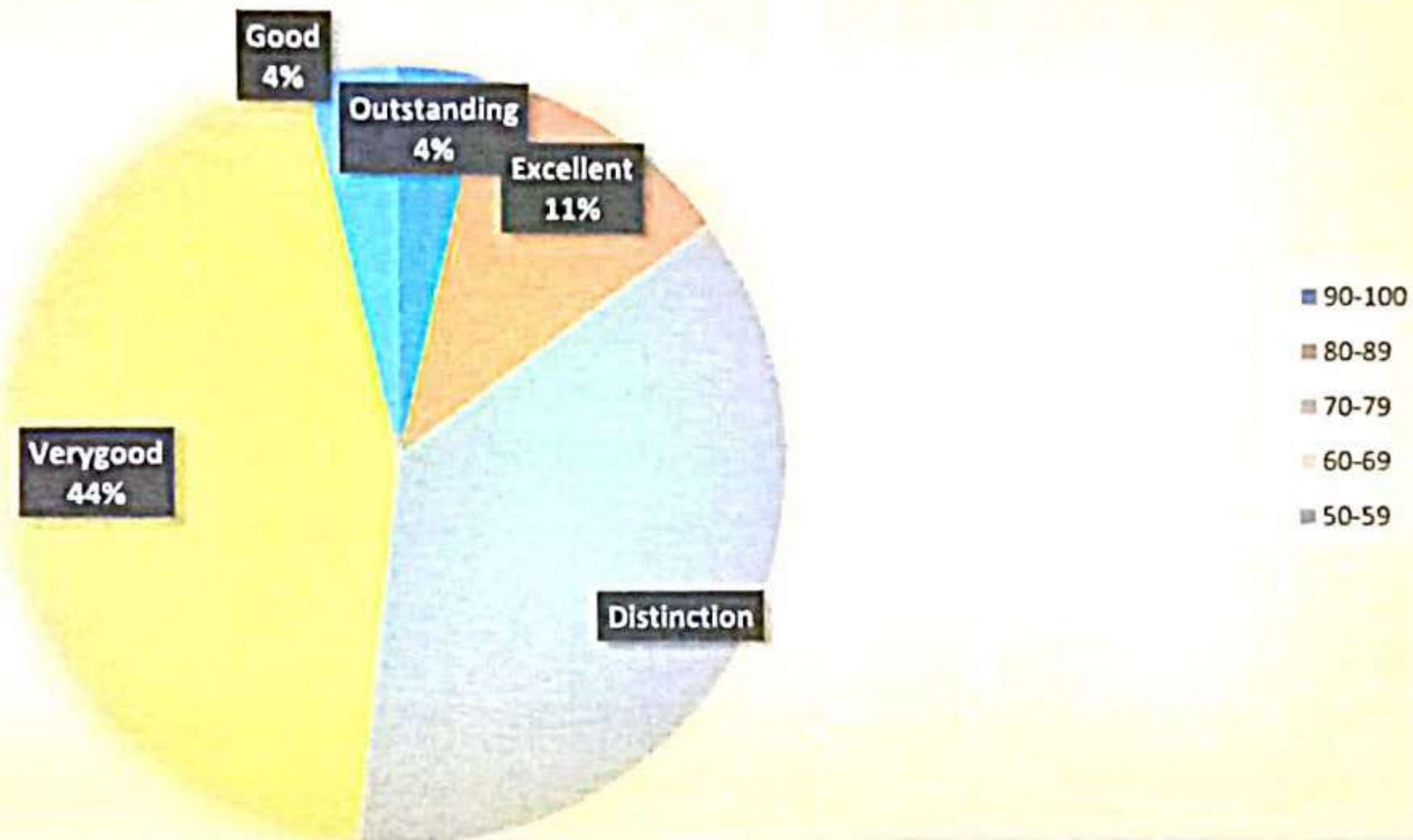
Number of Students: 26

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	1	Outstanding
80-89	3	Excellent
70-79	10	Distinction
60-69	12	Very Good
50-59	1	Good
40-49	0	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	3.85	Outstanding
80-89	11.54	Excellent
70-79	38.46	Distinction
60-69	46.15	Very Good
50-59	3.85	Good



Course Outcome Assessment Percentage



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PROGRAM OUTCOME FOR PRACTICAL

PO1	To find this course introduces to the methods of experimental physics.
PO2	An ability will be given on laboratory techniques such as accuracy of measurements & Data analysis.
PO3	To calculate basic experimental apparatus common to the study of physical phenomena.
PO4	To measure the interrelations between theory and observation the role of systematic and random experimental errors and methods used to analyze experimental uncertainty and compare experiment with theory.
PO5	To communicate scientific ideas effectively both orally and in writing.

16SCCPH1P-MAJOR PRACTICAL-I COURSE OUTCOME

CO1	To find the young's modulus of materials.
CO2	To determine the heat capacities of liquids and solids.
CO3	To calculate viscosity and surface tension of liquids from measurements.
CO4	To measure simple electrical and magnetic quantities such as voltage, current, resistance, earth's magnetic field.
CO5	To realize the formation of spectrum with prism and grating.



16SCCPH2P-MAJOR PRACTICAL-II
COURSE OUTCOME

CO1	To analyse the spectral lines using prism.
CO2	To convert the galvanometer into millimetre and millivolt meter and calibrate.
CO3	To determine capacitances and inductances using various bridge circuits.
CO4	To find wavelength of monochromatic light by forming Newton's rings.
CO5	To determine the pH, solubility and density of precursor solutions.

16SCCPH3P-MAJOR PRACTICAL-III
COURSE OUTCOME

CO1	To find the refractive index value.
CO2	To determine the value of M, EMF, Thermistor and Inductance.
CO3	To determine the series and parallel resonance
CO4	To construction and verification Logic gates
CO5	To construction and verification of OP-amp

16SCCPH4P-MAJOR PRACTICAL-IV
COURSE OUTCOME

CO1	To find the Wavelength, Dispersive power and Cauchy's constant
CO2	To determine the value of M and H, voltmeter calibration
CO3	To construction and characteristics amplifier, oscillator
CO4	To write ALP of arithmetic of intel 8085
CO5	To write ALP of Conversion of intel 8085




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16SCCPH1- PROPERTIES OF MATTER AND ACOUSTICS

COURSE OUTCOME

CO1	Study the different modulus of elasticity and determine the rigidity modulus and moment of inertia.
CO2	To understand the expression for bending moment and determination of young's modulus.
CO3	To understand the experimental study of surface tension and variation of surface tension.
CO4	To understand the fundamental process of Newton's law and recognizing Mayer's formula to these problems.
CO5	To study the factors affecting the acoustics of building

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	1	2	3	0
CO2	2	1	1	1	1
CO3	1	3	3	0	2
CO4	3	1	1	2	2
CO5	0	2	0	1	1
Average	1.4	1.6	1.4	1.4	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB20S445988	ABISHEK .M	4	4	4	4	4	20	80
CB20S445989	SARAN .V	5	4	4	4	4	21	84
CB20S445990	SASI .M	2	5	5	5	5	22	88
Average		3.67	4.33	4.33	4.33	4.33		

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.67	75	78.67	92.55
CO2	4.33	75	79.33	93.33
CO3	4.33	75	79.33	93.33
CO4	4.33	75	79.33	93.33
CO5	4.33	75	79.33	93.33

Course Attainment for B.Sc Physics

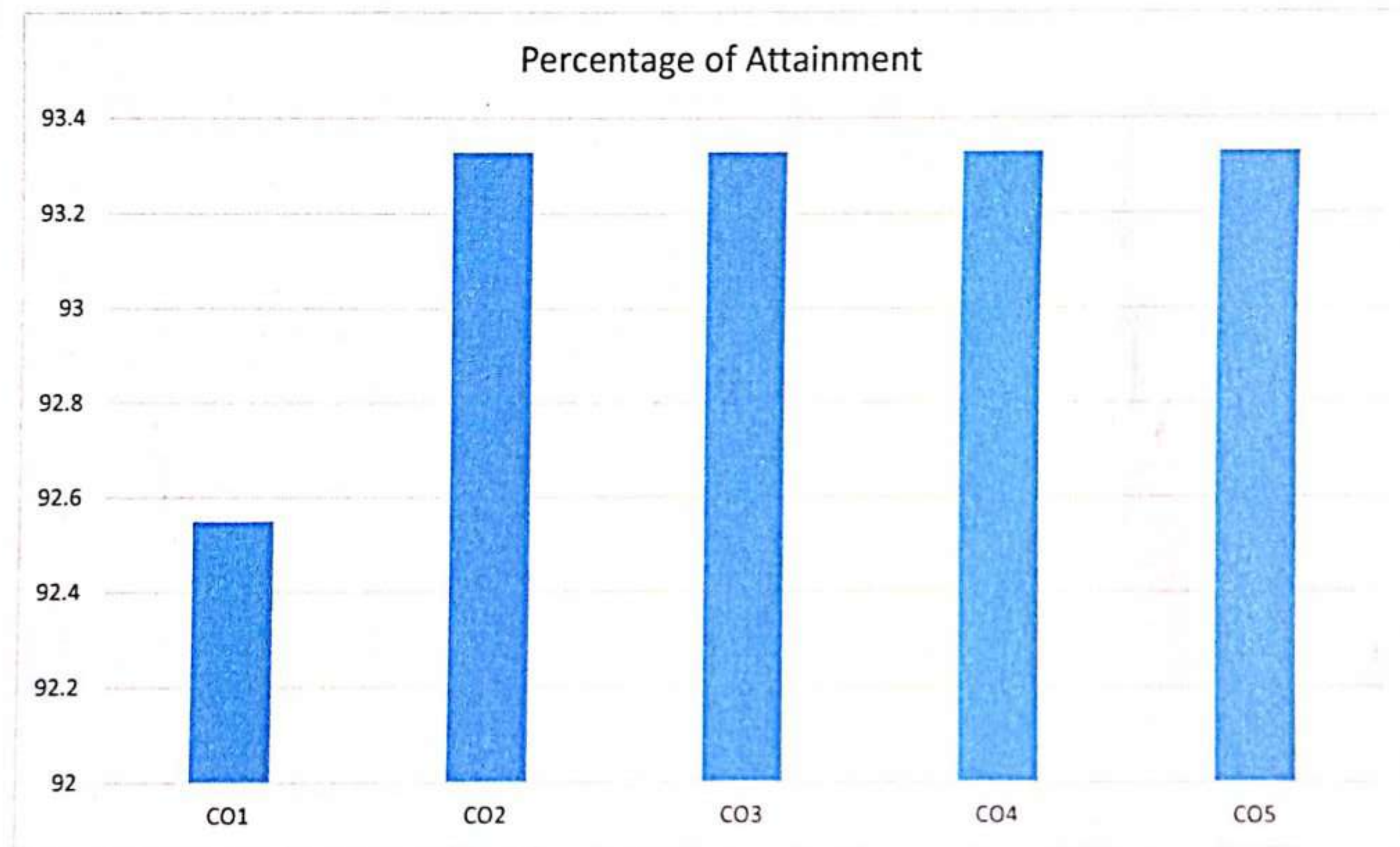
Subject Name: PROPERTIES OF MATTER& ACOUSTICS

Subject code : 16SCCPH1

Number of Students: 3

Course Outcome	Percentage of Attainment
CO1	92.55
CO2	93.33
CO3	93.33
CO4	
CO5	





Course Attainment for B.Sc Physics

subject Name: Properties of matter & Acoustics

Subject Code: 16SCCPH1

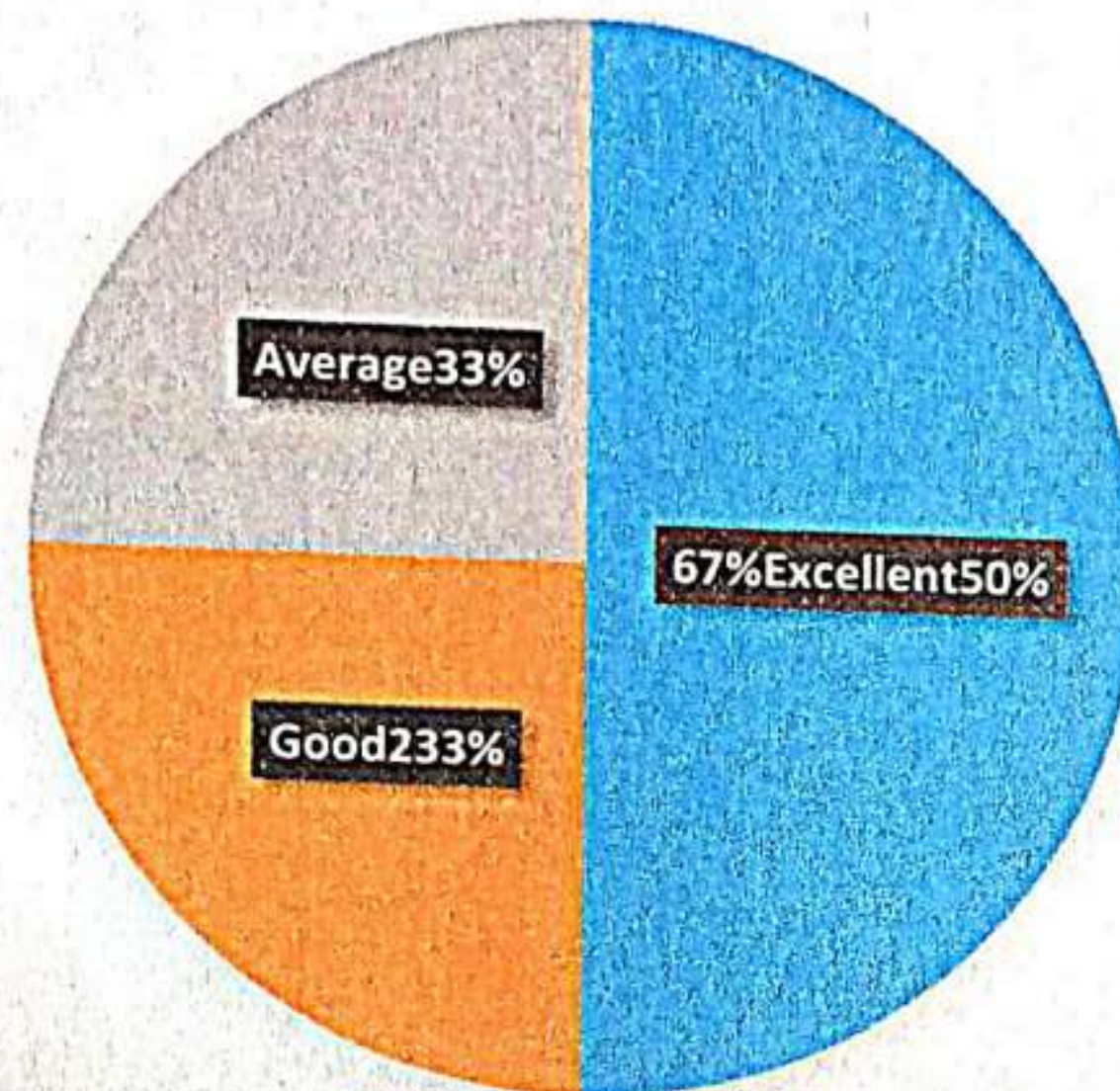
Number of Students: 3

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstaning
80-89	2	Excellent
75-79	0	Distinction
70-74	0	Very Good
60-69	1	Good
50-59	1	Average
0-49	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
80-89	66.67	Excellent
60-69	33.33	Good
50-59	33.33	Average



Percentage



- 80-89
- 60-69
- 50-59



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16SCCPH2- MECHANICS

COURSE OUTCOME

CO1	To understand the fundamentals laws of impact,particle projected in any direction&concept of Direct&oblique impact.
CO2	To understand the expression for normal acceleration&variation of g with altitude,latitude and depth.
CO3	To understand the determine the Newton's law of gravitation and analysis of gravitational potential and field.
CO4	To understand laws of friction,fundamental process of moment of inertia recognizing Kater's pendulum.
CO5	The course foundation of centre of gravity in accordance with atmospheric pressure.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	1	1	2	3	0
CO2	2	1	1	1	1
CO3	1	3	3	0	2
CO4	3	1	1	2	2
CO5	0	2	0	1	1
Average	1.4	1.6	1.4	1.4	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB20S445988	ABISHEK .M	3	5	5	5	5	23	92
CB20S445989	SARAN .V	5	5	5	5	4	24	96
CB20S445990	SASI .M	4	5	5	5	5	22	88
Average		4.00	5.00	5.00	5.00	4.67		

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.33	75	78.33	92.15
CO2	5	75	80	94.12
CO3	5	75	80	94.12
CO4	5	75	80	94.12
CO5	4.67	75	79.67	93.73

Course Attainment for B.Sc Physics

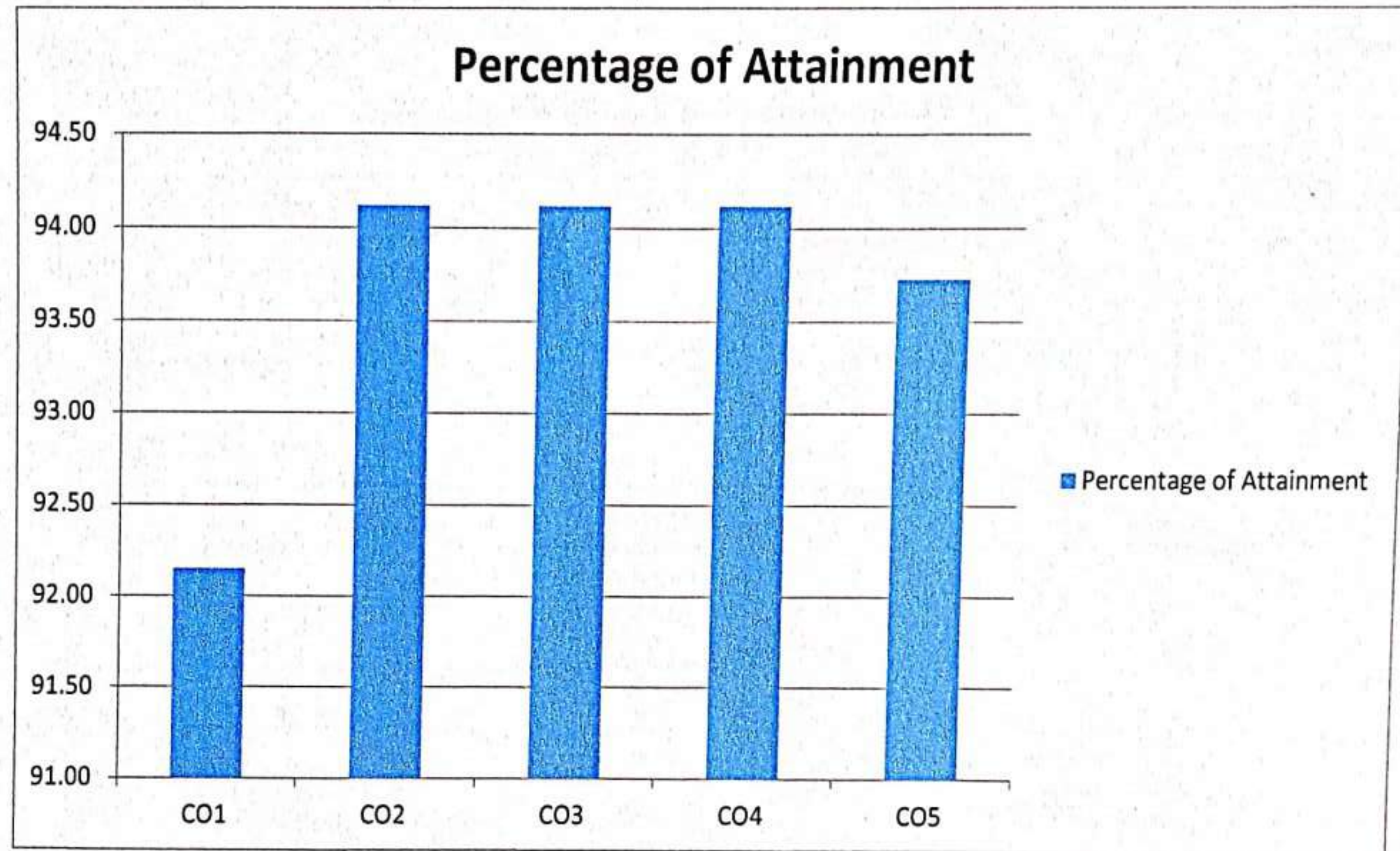
Subject Name: MECHANICS

Subject code : 16SCCPH2

Number of Students: 3

Course Outcome	Percentage of Attainment
CO1	92.15
CO2	94.12
CO3	94.12
CO4	94.12
CO5	93.73





Course Attainment for B.Sc Physics

Subject Name: MECHANICS

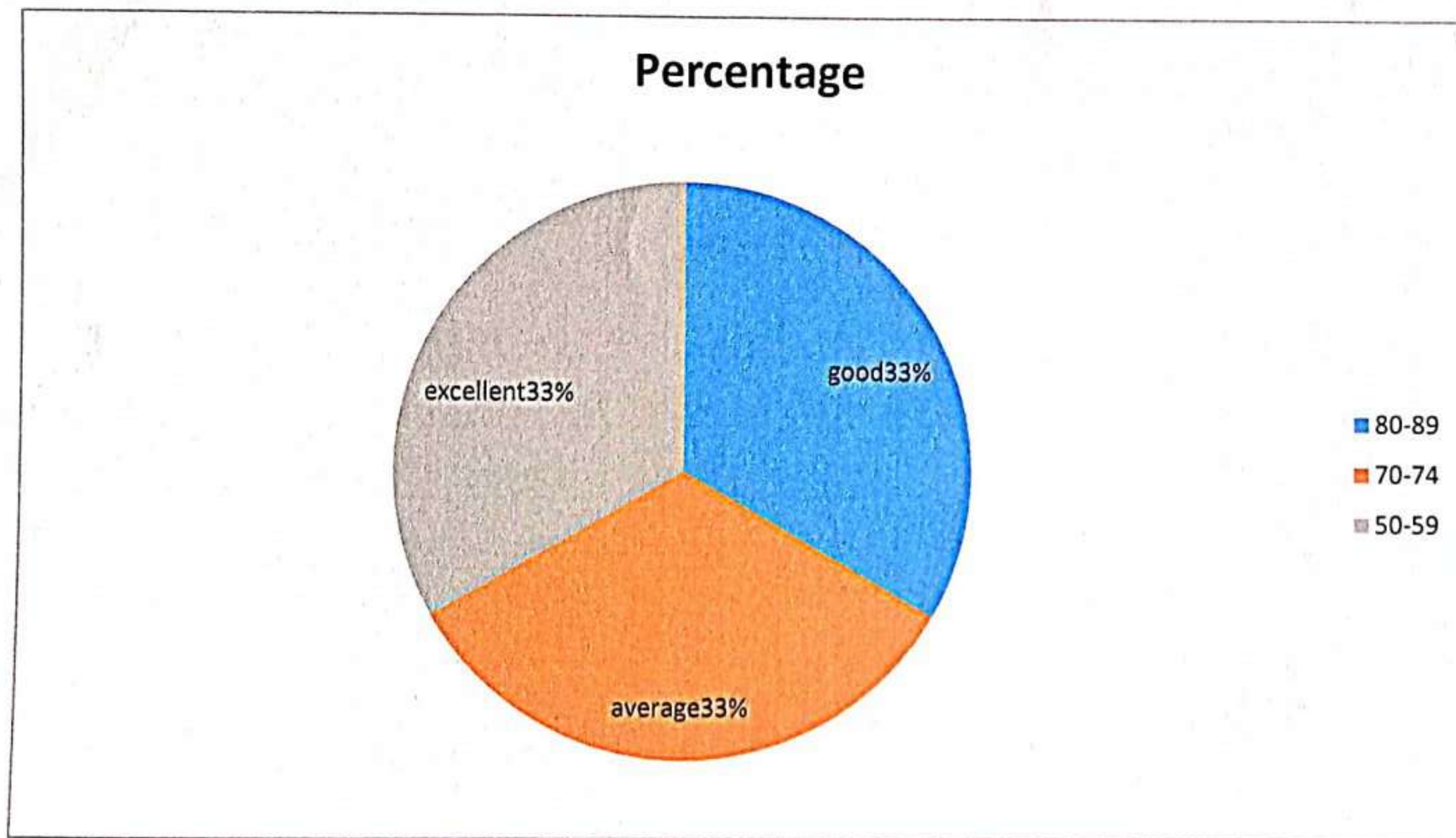
Subject Code: 16SCCPH2

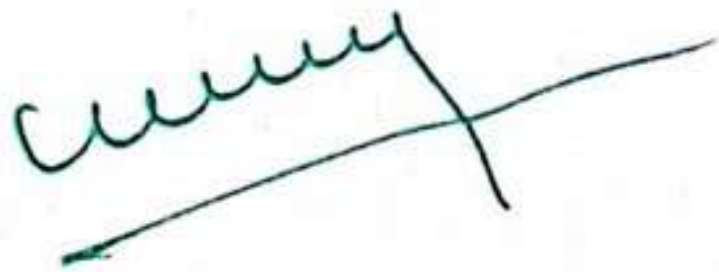
Number of Students: 3

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	1	Excellent
75-79	0	Distinction
70-74	1	Very Good
60-69	0	Good
50-59	1	Average
0-49	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
80-89	33.33	Excellent
70-74	33.33	Good
50-59	33.33	Average






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Attainment of program outcomes and course outcomes
Course Outcome-Programme Outcome Mapping
Department of Physics

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH3- Thermal physics

COURSE OUTCOME

CO1	Learn fundamental laws, specific heat of matter.
CO2	Known about Laws of heat, properties of metals and uses conclusion of heat.
CO3	Learn Laws of Radiation, Experiment, conclusion of temperature of sun, uses of solar energy.
CO4	Principles of law Temperature, experimental, application of law temperature, cooling energy
CO5	Laws of Thermodynamics, change of reversible and irreversible processes, Thermodynamical relations.



Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH3 Thermal physics	CO1	0	2	0	0	2
	CO2	2	2	0	1	1
	CO3	0	0	1	2	1
	CO4	1	1	0	1	2
	CO5	0	1	1	0	0
	Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB19S 442826	ABRANA.M	4	5	5	5	5	24	96
CB19S 442827	BHAKKIYA LAKSHMI K	5	4	5	4	4	22	88
CB19S 442828	JEGAN J	4	4	4	4	4	20	80
CB19S 442830	KIRUTHIKA K	5	5	5	5	5	25	100
CB19S 442831	NOWSHITHA H	4	4	4	4	4	20	80
CB19S 442832	RAJADURAI R	4	4	4	5	5	22	88
CB19S 442833	RANJITH M	5	5	5	4	4	23	92
CB19S 442834	RANJITH KUMAR M	4	4	4	4	4	20	80
CB19S 442835	SANJAY S	3	3	4	4	4	18	72
CB19S 442836	SANTHIYA DHARSHINI V	5	4	5	4	4	22	88
CB19S 442837	SWETHA B	5	5	5	5	4	24	96
Average		4.36	4.27	4.55	4.36	4.27		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.36	75	79.36	93.36
CO2	4.27	75	79.27	93.26
CO3	4.55	75	79.55	93.59
CO4	4.36	75	79.36	93.36
CO5	4.27	75	79.27	93.26

Course Attainment for B.Sc Physics

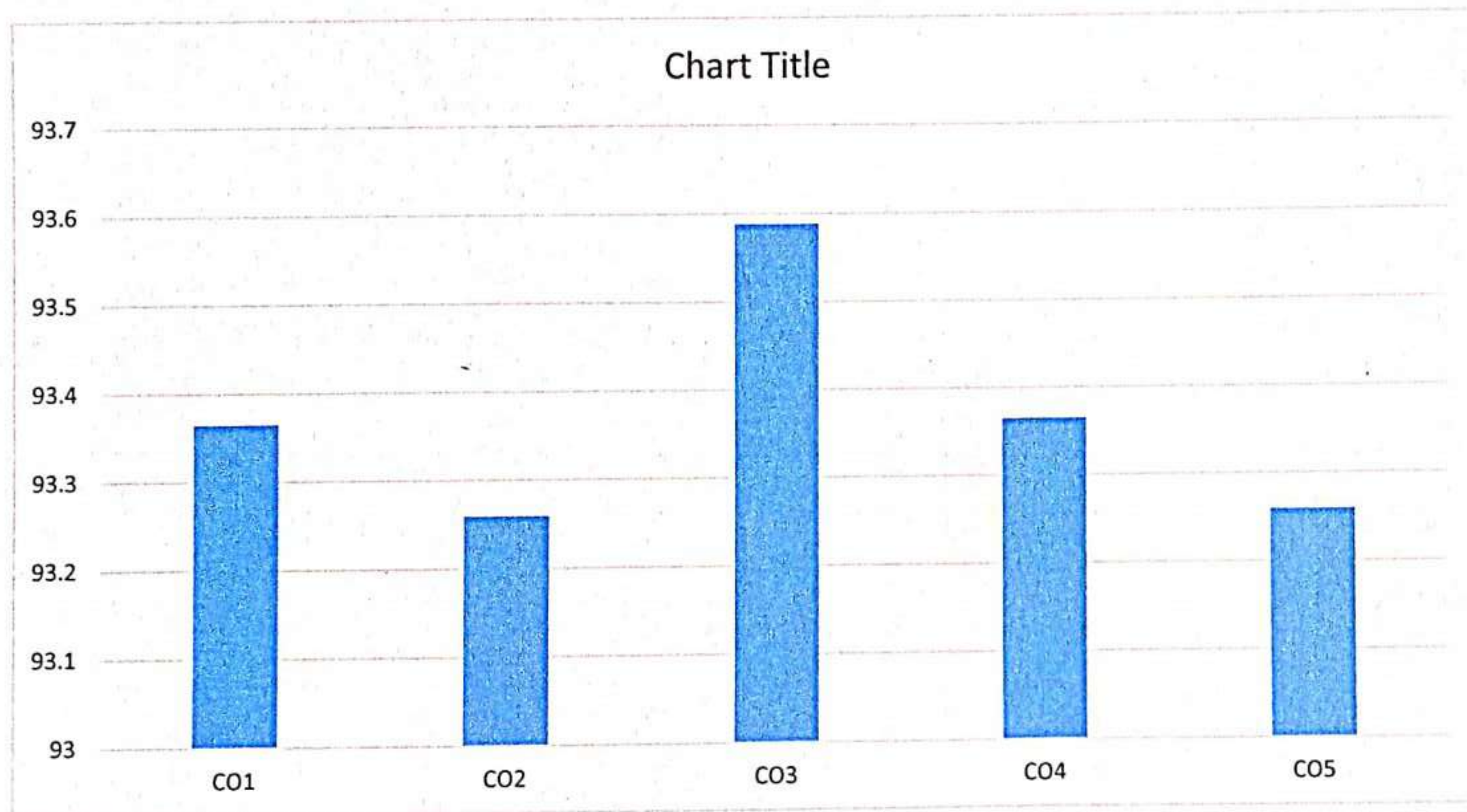
Subject Name: Thermal Physics

Subject Code: 16SCCPH3

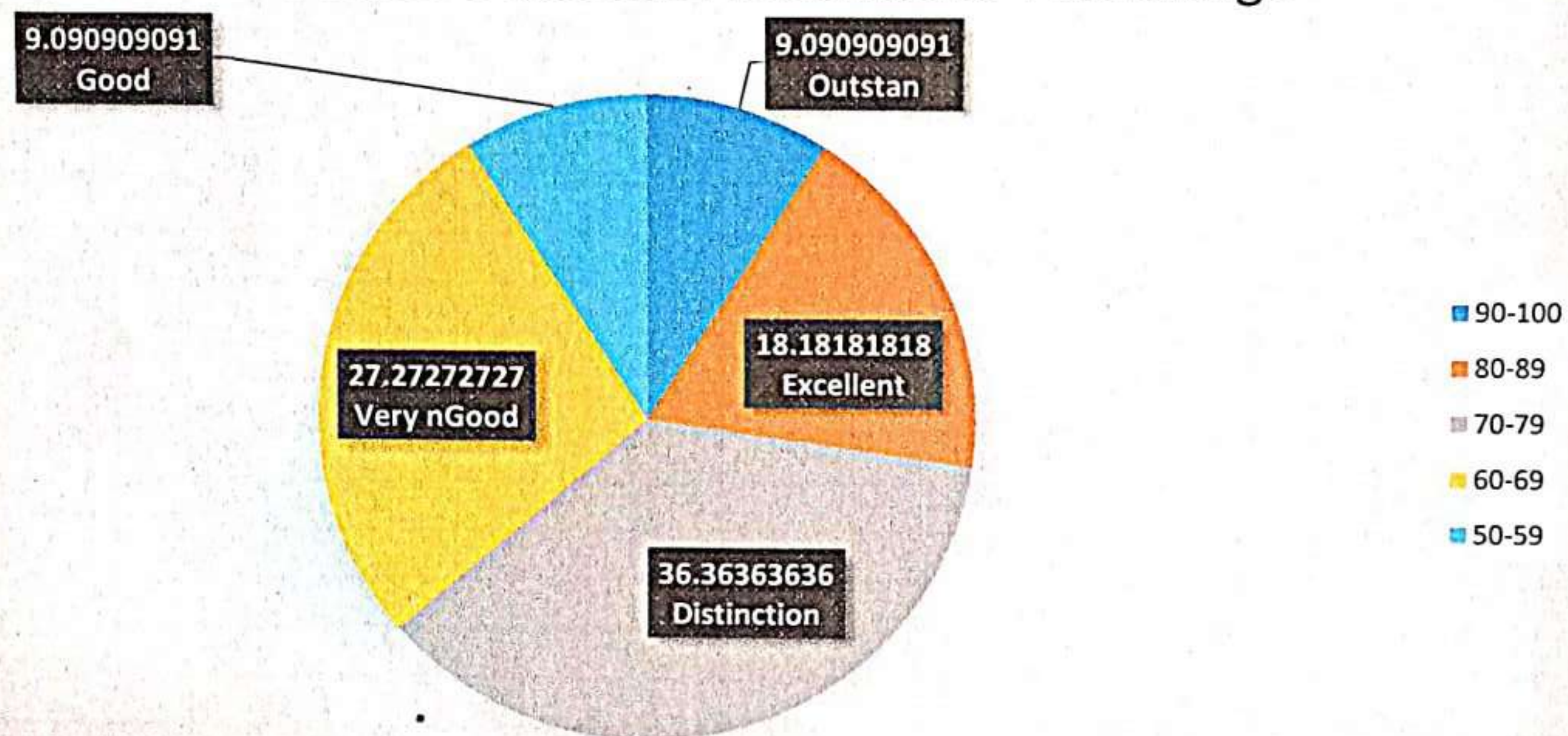
Number of Students:11

Course Outcome	Percentage of Attainment
CO1	93.36
CO2	93.26
CO3	93.59
CO4	93.36
CO5	93.26





Course Outcome Assessment Percentage



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16SCCPH4- ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM
COURSE OUTCOME

CO1	Coulombs law, Gauss's Law, Principle of Capacity and Loss of Energy Calculation
CO2	Critical Law,Kirchhoff's Law,Calibration of Ammeter and Voltmeter
CO3	Laws of Electromagnetic induction,Self and Mutual induction Decay of Current in a circuit
CO4	Series Circuit,Q-factor Calculation, Power in AC Circuits and Ueses of Transformers
CO5	Propertites of magnetic matrial ,Energy loss due to magnetic.

Course Code & Course Code	PO→ CO↓	PO1	PO2	PO3	PO4	PO5
16SCCPH4- ELECTRICITY, MAGNETISM AND ELECTROMAGNE TISM	CO1	2	0	1	1	0
	CO2	2	1	1	1	1
	CO3	1	0	0	0	1
	CO4	1	1	1	0	2
	CO5	0	2	0	1	1
	Average	1.2	0.8	0.6	0.6	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.No	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB19S 442826	ABRANA.M	5	5	4	4	4	23	92
2	CB19S 442827	BHAKKIYA LAKSHMI K	4	4	4	4	4	20	80
3	CB19S 442828	JEGAN J	4	4	4	5	3	20	80
4	CB19S 442830	KIRUTHIKA K	5	5	5	5	4	24	96
5	CB19S 442831	NOWSHITHA H	3	5	4	4	4	20	80
6	CB19S 442832	RAJADURAI R	5	5	4	4	4	22	88
7	CB19S 442833	RANJITH M	5	4	4	4	4	21	84
8	CB19S 442834	RANJITH KUMAR M	5	5	4	4	4	22	88
9	CB19S 442835	SANJAY S	5	4	4	4	4	21	84
10	CB19S 442836	SANTHIYA DHARSHINI V	5	5	5	4	4	23	92
11	CB19S 442837	SWETHA B	4	5	5	5	3	22	88
		Average	4.55	4.64	4.27	4.27	3.82		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.55	75	79.55	93.59
CO2	4.64	75	79.64	93.69
CO3	4.27	75	79.27	93.26
CO4	4.27	75	79.27	93.26
CO5	3.82	75	78.82	92.73

Course Attainment for B.Sc Physics

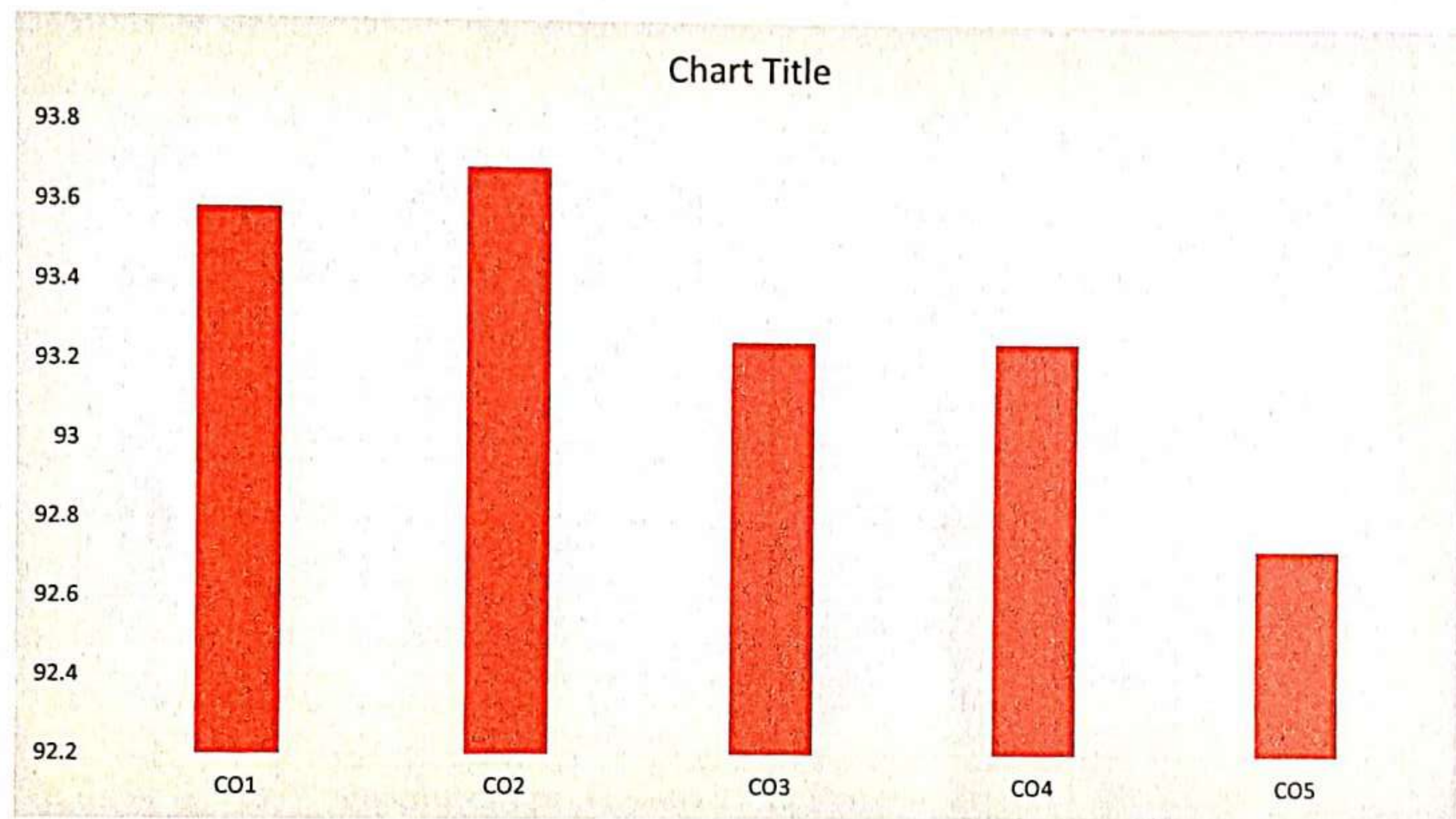
Subject Name: ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM

Subject Code: 16SCCPH4

Number of Students: 11

Course Outcome	Percentage of Attainment
CO1	93.59
CO2	93.69
CO3	93.26
CO4	93.26
CO5	92.73





Course Attainment for B.Sc Physics

Subject Name: ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM

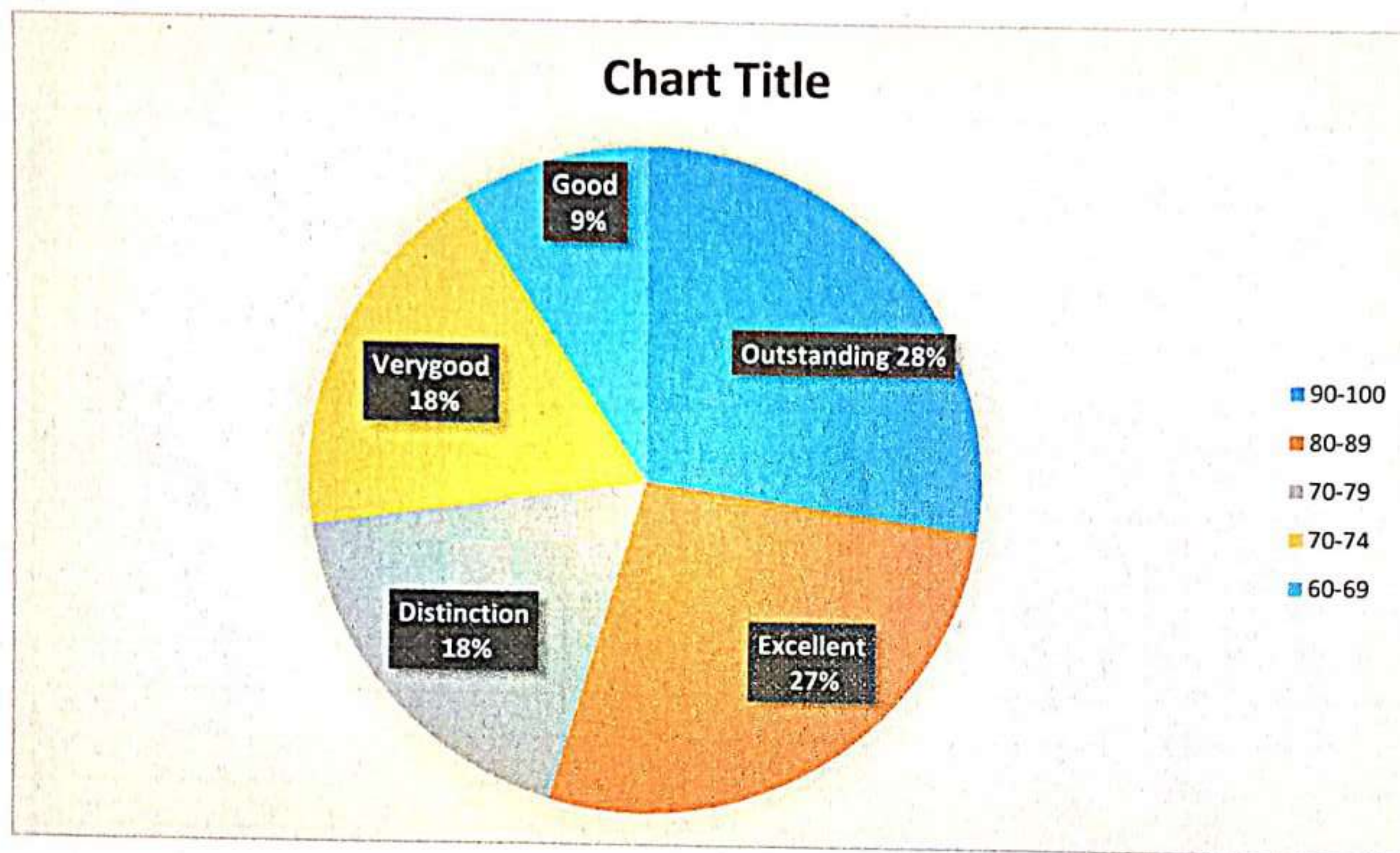
Subject Code: 16SCCPH4

Number of Students: 11

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	3	Outstaning
80-89	3	Excellent
75-79	2	Distinction
70-74	2	Very Good
60-69	1	Good
50-59	0	Average
0-49	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	27.27	Outstanding
80-89	27.27	Excellent
70-79	18.18	Distinction
70-74	18.18	Very Good
	9.09	Good





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16SCCPH5-OPTICS
COURSE OUTCOME

CO1	Study different types of Spherical aberration and Chromatic aberration in a lens
CO2	Fundamental of Stationary waves and its applications of interference
CO3	To study differentiate Fresnel's diffraction and Fraunhofer diffraction.
CO4	To understand fundamental process of double image polarizing prism and experimental of Laurent's half shade polarimeter
CO5	To understand various types of Eyepieces and accordance with microscope and Telescope.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	1	0	1	0
CO2	1	2	0	0	0
CO3	0	1	2	1	0
CO4	2	1	0	2	1
CO5	1	0	2	0	1
Average	1	1	0.8	0.8	0.4

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Name	Register No	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
ABISHEK.J	CB18S439597	3	3	3	5	5	19	76
AKILA.V	CB18S439598	3	3	5	5	3	19	76
BHARATHIRAJA.P	CB18S439599	3	3	4	4	4	18	72
DHARANI.V	CB18S439600	4	4	4	4	4	20	80
NANDHINI.P	CB18S439602	3	3	3	5	5	19	76
NIVETHA.D	CB18S439603	5	5	3	5	4	22	88
PRAVEENA.J	CB18S439604	5	5	5	3	3	21	84
VIGNESH.S	CB18S439605	3	3	3	5	5	19	76
VIGNESHKUMAR.M	CB18S439606	5	5	3	5	5	23	92
YAZHINI.G	CB18S439607	4	5	5	5	5	24	96
Average		3.80	3.90	3.80	4.60	4.30		



Expected Attainment in each CO - 85%

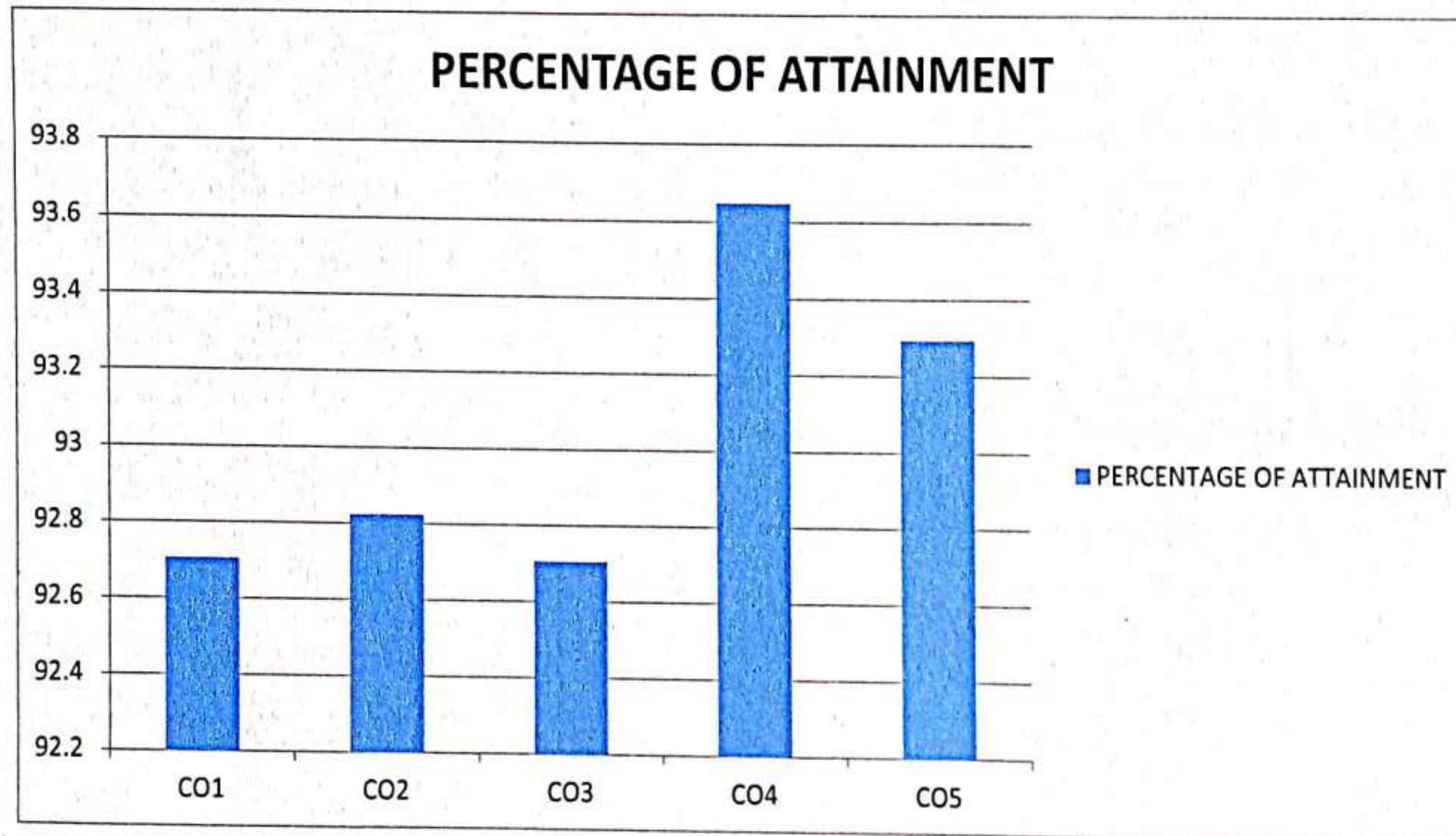
CO	Internal Exam	External Exam	Total	%
CO1	3.8	75	78.8	92.71
CO2	3.9	75	78.9	92.82
CO3	3.8	75	78.8	92.71
CO4	4.6	75	79.6	93.65
CO5	4.3	75	79.3	93.29

COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME: Optics
 SUBJECT CODE : 16SCCPH5
 NO.OF STUDENTS : 10

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	92.71
CO2	92.82
CO3	92.71
CO4	93.65
CO5	93.29





COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME : Optics

SUBJECT CODE : 16SCCPH5

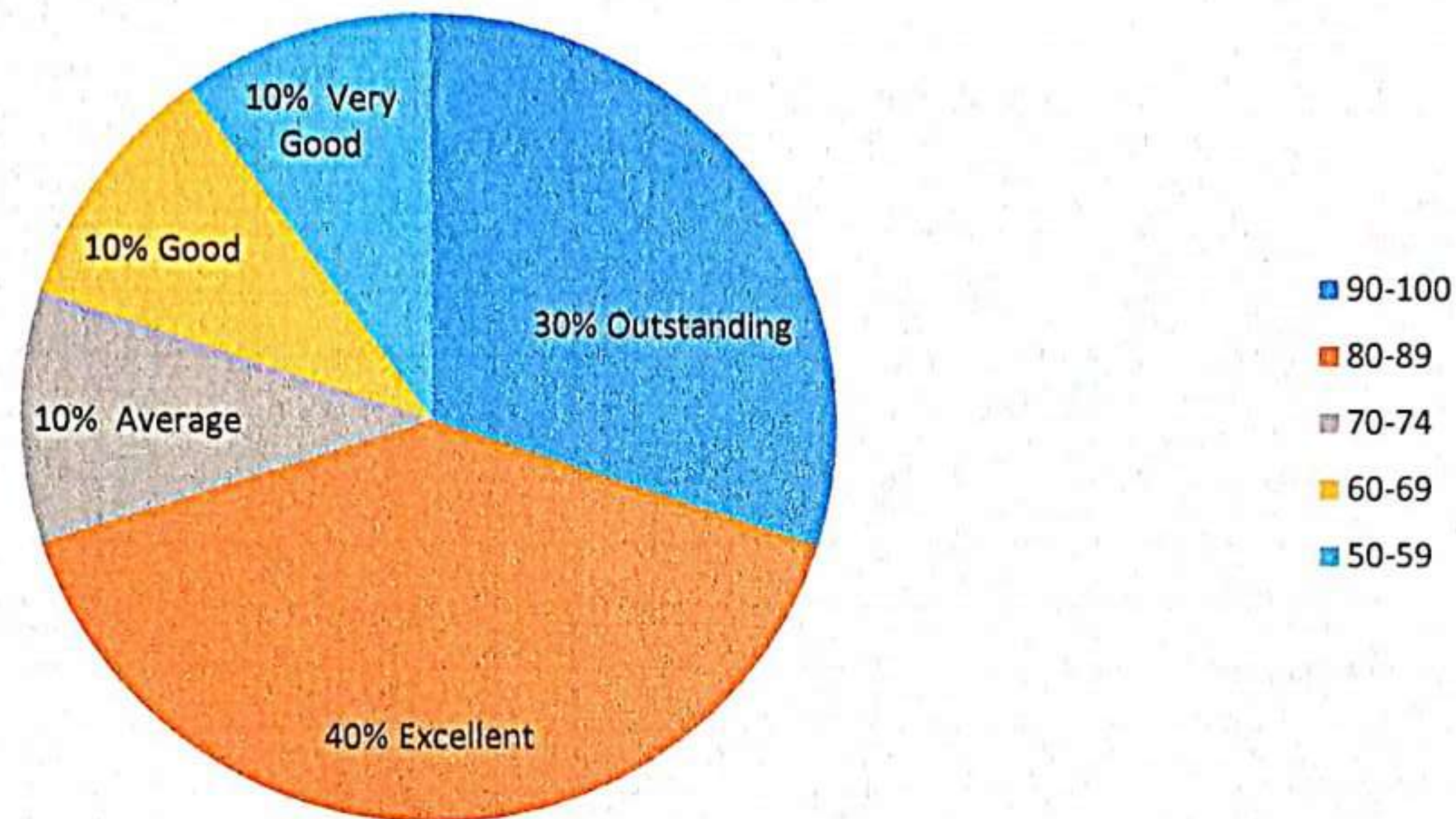
NO.OF STUDENTS : 10

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	3	OUTSTANDING
80-89	4	EXCELLENT
75-79	0	DISTINCTION
70-74	1	VERY GOOD
60-69	1	GOOD
50-59	1	AVERAGE
0-49	0	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
90-100	30.00	OUTSTANDING
80-89	40.00	EXCELLENT
70-74	10.00	VERY GOOD
60-69	10.00	GOOD
50-59	10.00	AVERAGE



COURSE OUTCOME ASSESSMENT



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16SCCPH6 - Atomic and Molecular physics

COURSE OUTCOME

CO1	Study properties of rays, production, charge calculation by experimental.
CO2	Fundamental of atom, structure, principles and effect of experiments.
CO3	Production and detection of x-rays, Laws of x-rays and characteristics of x-rays.
CO4	Properties of metals, photo electric effect, experimental arrangement and verification, applications.
CO5	LASER properties, concepts, experimental and applications.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	2	0	1	1
CO2	3	3	0	2	1
CO3	2	1	1	1	2
CO4	2	3	2	3	3
CO5	3	3	0	2	2
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB18S 439596	AARTHI R	3	5	3	5	3	19	76
CB18S 439597	ABISHEK J	4	4	5	5	5	23	92
CB18S 439598	AKILA V	5	3	5	3	3	19	76
CB18S 439599	BHARATHIRAJA P	5	4	3	4	4	20	80
CB18S 439600	DHARANI V	4	5	4	5	4	22	88
CB18S 439602	NANDHINI P	5	3	4	4	4	20	80
CB18S 439603	NIVETHA D	4	5	4	4	4	21	84
CB18S 439604	PRAVEENA J	4	4	5	5	4	22	88
CB18S 439605	VIGNESH S	4	4	3	4	5	20	80
CB18S 439606	VINESH KUMAR M	5	5	5	5	4	24	96
CB18S 439607	YAZHINI G	5	4	5	4	5	23	92
Average		4.36	4.18	4.18	4.36	4.09		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.36	75	79.36	93.36
CO2	4.18	75	79.18	93.15
CO3	4.18	75	79.18	93.15
CO4	4.36	75	79.36	93.36
CO5	4.09	75	79.09	93.05

Course Attainment for B.Sc Physics

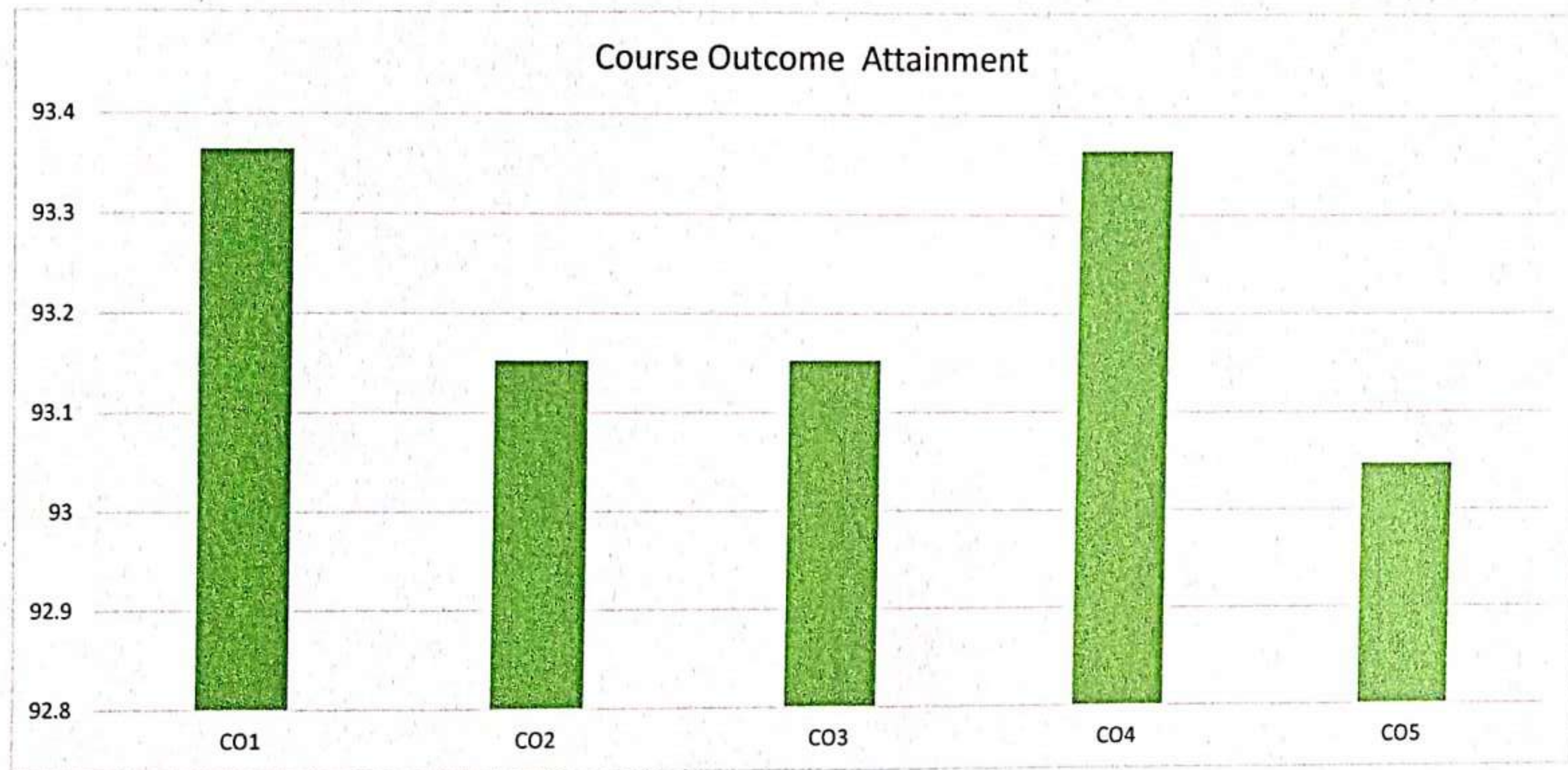
Subject Name: Atomic and Molecular Physics

Subject Code: 16SCCPH6

Number of Students: 11

Course Outcome	Percentage of Attainment
CO1	93.36
CO2	93.15
CO3	93.15
CO4	93.36
CO5	93.05





Course Attainment for B.Sc Physics

Subject Name: Atomic and Molecular Physics

Subject Code: 16SCCPH6

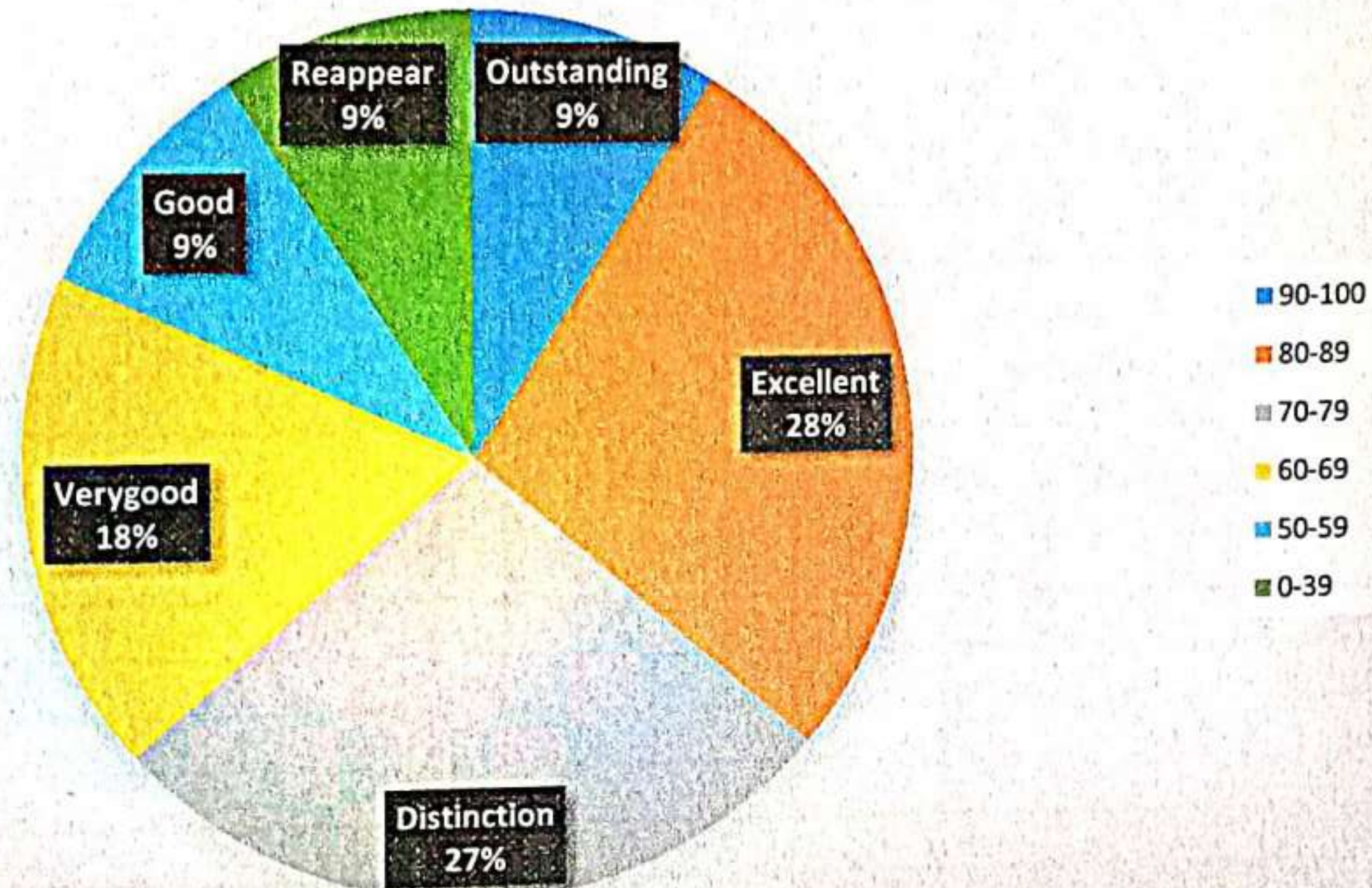
Number of Students: 11

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	1	Outstanding
80-89	3	Excellent
70-79	3	Distinction
60-69	2	Very Good
50-59	1	Good
40-49	0	Average
0-39	1	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	9.09	Outstanding
80-89	27.27	Excellent
70-79	27.27	Distinction
60-69	18.18	Very Good
50-59	9.09	Good
0-39	9.09	Reappear



Course Outcome Assessment



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16SCCPH7- ELECTRONICS
COURSE OUTCOME

CO1	To understand the features of semiconductor and zener diode and their fundamental concepts
CO2	Design different types of oscillator.
CO3	Understand the working of basic gates.
CO4	Choose flip flop for a particular application.
CO5	Design operational amplifier circuits and to analyse their properties.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	3	3	0	1	2
CO2	1	3	2	2	1
CO3	0	1	1	3	2
CO4	0	1	2	1	3
CO5	0	0	0	2	2
Average	0.8	1.6	1	1.8	2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB18S 439597	ABISHEK J	4	5	5	5	5	24	96
CB18S 439598	AKILA V	5	4	5	3	4	21	84
CB18S 439599	BHARATHIRAJA P	5	4	4	4	4	21	84
CB18S 439600	DHARANI V	4	5	4	5	4	22	88
CB18S 439602	NANDHINI P	5	3	4	5	5	22	88
CB18S 439603	NIVETHA D	4	5	5	5	5	24	96
CB18S 439604	PRAVEENA J	4	4	5	4	4	21	84
CB18S 439605	VIGNESH S	4	4	4	5	5	22	88
CB18S 439606	VINESH KUMAR M	5	5	5	5	5	25	100
CB18S 439607	YAZHINI G	5	5	5	5	5	25	100
Average		4.50	4.40	4.60	4.60	4.60		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.55	75	79.55	93.59
CO2	4.45	75	79.45	93.47
CO3	4.36	75	79.36	93.36
CO4	4.64	75	79.64	93.69
CO5	4.45	75	79.45	93.47

COURSE ATTAINMENT FOR B.Sc physics

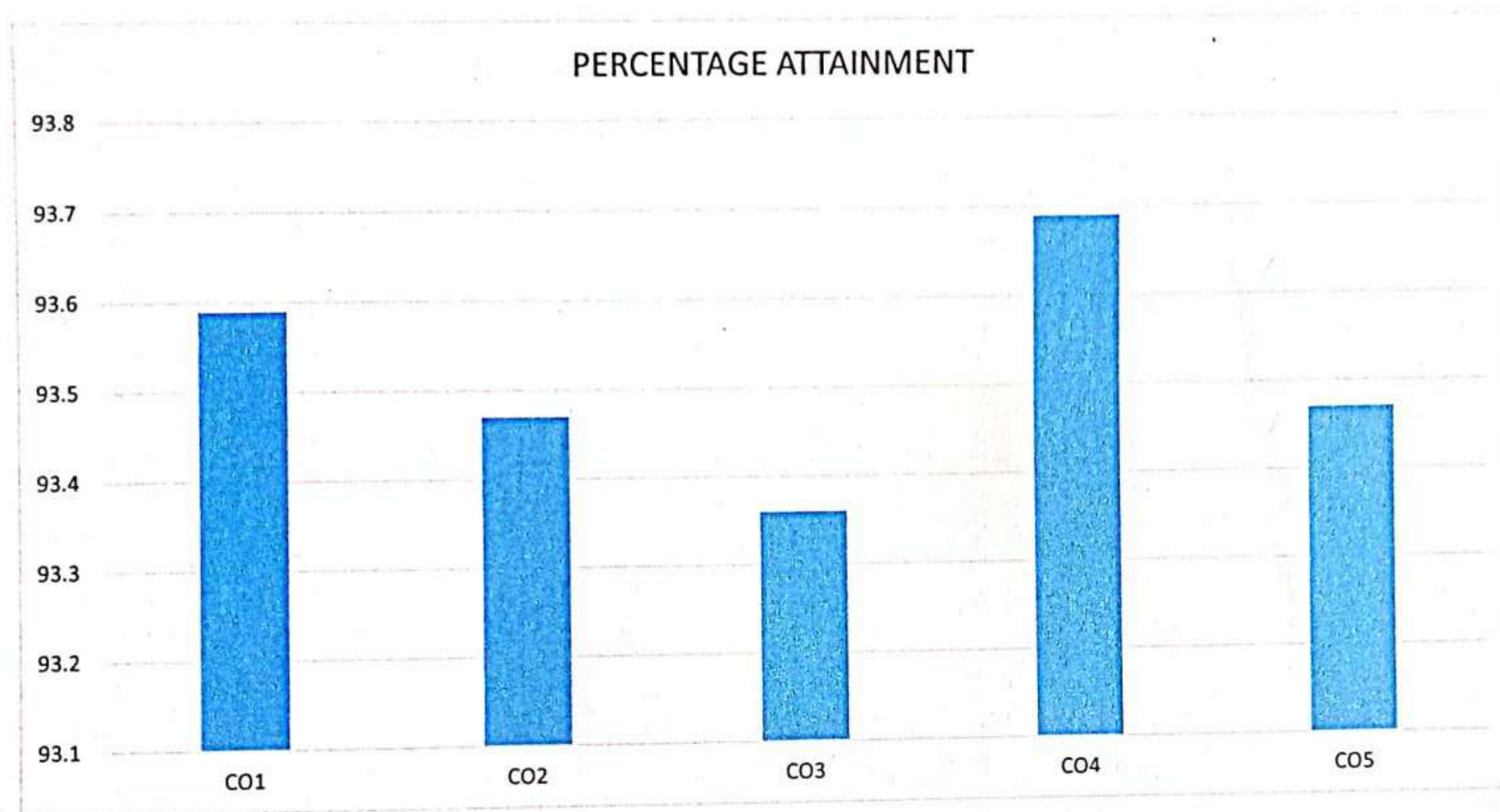
SUBJECT NAME: ELECTRONICS

SUBJECT CODE :16SCCPH7

NO OF STUDENTS:11

COURSE OUTCOME	PERCENTAGE ATTAINMENT
CO1	93.59
CO2	93.47
CO3	93.36
CO4	93.69
CO5	93.47





COURSE ATTAINMENT FOR B.Sc PHYSICS

SUBJECT NAME:ELECTRONICS

SUBJECT CODE:16SCCPH7

NO OF STUDENTS:11

	COURSE OUTCOME ASSESSMENT	
CATEGORY	PERCENTAGE	STATUS
90-100	1	OUTSTANDING
80-89	4	EXCELLENT
75-79	1	DISTINCTION
70-74	1	VERY GOOD
60-69	3	GOOD
50-59	0	AVERAGE
0-49	1	REAPPEAR

COURSE OUTCOME ASSESSMENT		
CATEGORY	PERCENTAGE	STATUS
90-100	9%	OUTSTANDING
80-89	36.30%	EXCELLENT
75-79	9%	DISTINCTION
70-74	9%	VERY GOOD
60-69	27%	GOOD
0-49	0%	REAPPEAR





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16SCCPH8- Nuclear physics

COURSE OUTCOME

CO1	The basic nuclear properties, Nuclear models
CO2	Radioactive decay law, types of decay and properties of neutrino.
CO3	Describe particle detectors and accelerators.
CO4	Nuclear reactions, conservation laws, Q-value calculations, Nuclear reactor.
CO5	Elementary particles, conservation laws, Quark model.

PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	0	2	0	0	2
CO2	2	2	0	1	1
CO3	0	0	1	2	1
CO4	1	1	0	1	2
CO5	0	1	1	0	0
Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB18S 439597	ABISHEK J	5	5	4	5	5	24	96
CB18S 439598	AKILA V	3	4	3	5	5	20	80
CB18S 439599	BHARATHIRAJA P	5	5	4	4	4	22	88
CB18S 439600	DHARANI V	4	5	4	4	5	22	88
CB18S 439602	NANDHINI P	5	4	4	4	4	21	84
CB18S 439603	NIVETHA D	4	4	4	4	5	21	84
CB18S 439604	PRAVEENA J	4	4	5	5	4	22	88
CB18S 439605	VIGNESH S	5	5	4	4	4	22	88
CB18S 439606	VINESH KUMAR M	5	5	5	5	5	25	100
CB18S 439607	YAZHINI G	5	5	4	5	5	24	96
Average		4.50	4.60	4.10	4.50	4.60		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.50	75	79.50	93.53
CO2	4.6	75	79.60	93.65
CO3	4.1	75	79.10	93.06
CO4	4.5	75	79.50	93.53
CO5	4.6	75	79.60	93.65

Course Attainment for B.Sc Physics

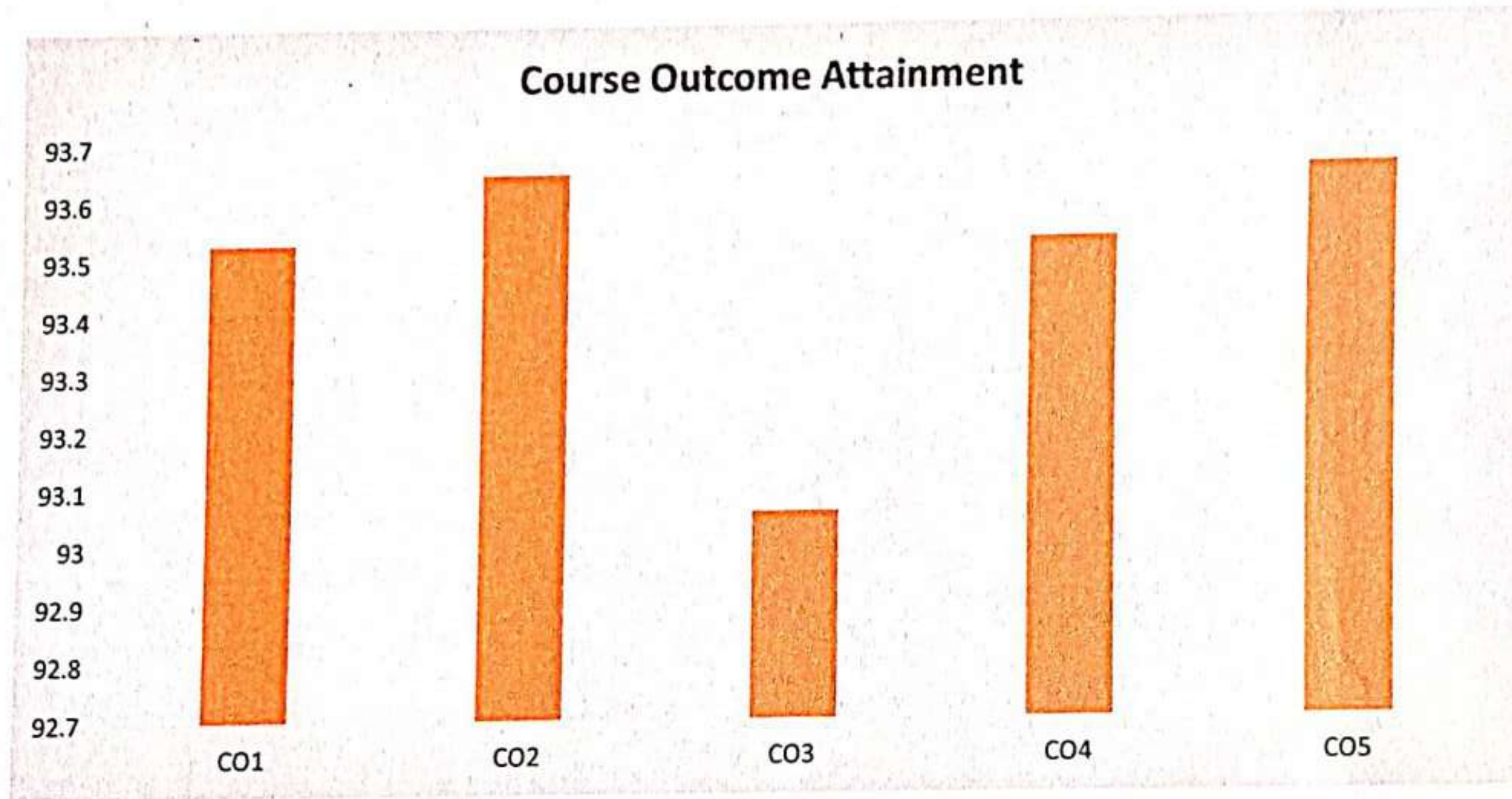
Subject Name: Nuclear physics

Subject Code: 16SCCPH8

Number of Students: 10

Course Outcome	Percentage of Attainment
CO1	93.53
CO2	93.65
CO3	93.06
CO4	93.53
CO5	93.65





Course Attainment for B.Sc Physics

Subject Name: Nuclear physics

Subject Code: 16SCCPH8

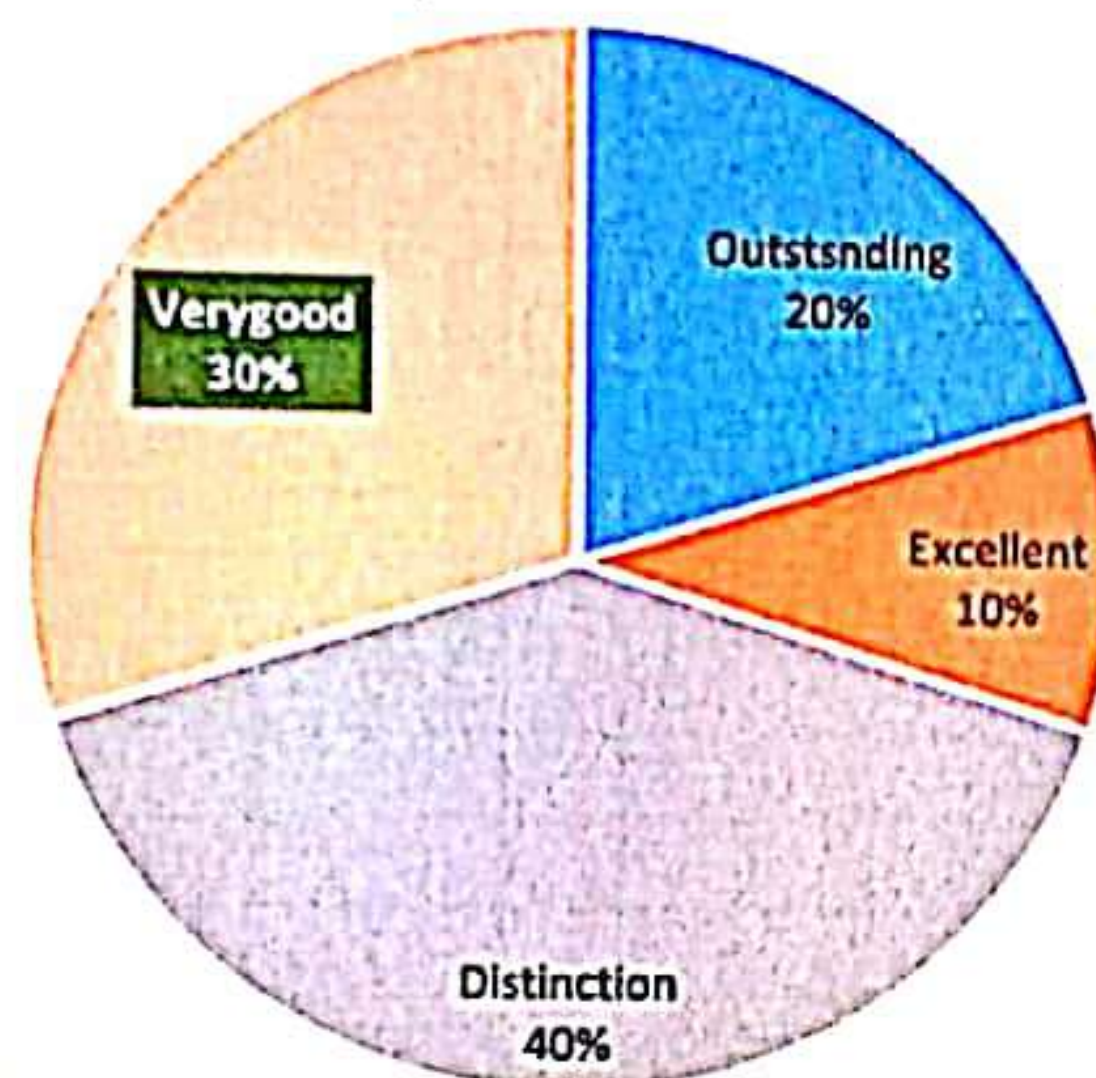
Number of Students: 10

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	2	Outstanding
80-89	1	Excellent
70-79	4	Distinction
60-69	3	Very Good
50-59	0	Good
40-49	0	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	20	Outstanding
80-89	10	Excellent
70-79	40	Distinction
60-69	30	Very Good



Course Outcome Assessment Percentage



- 90-100
- 80-89
- 70-79
- 60-69



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16SCCPH9 - Theoretical Physics
COURSE OUTCOME

CO1	Study fundamental laws, Conservation theorem and Symmetry properties.
CO2	To understand the characteristics of generalized momentum and Cyclic co-ordinate.
CO3	To understand experimental study of matter waves and Debroglie relation.
CO4	To understand the development of Schrodinger wave equation and properties of wave function
CO5	To study the foundation of Quantum system.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	3	2	0	1	0
CO2	3	3	0	2	0
CO3	2	2	2	3	2
CO4	0	2	3	3	3
CO5	2	3	3	0	2
Average	2	2.4	1.6	1.8	1.4

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Name	Register No	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
ABISHEK.J	CB18S439597	5	5	5	5	4	23	92
AKILA.V	CB18S439598	5	5	4	4	2	20	80
BHARATHIRAJA.P	CB18S439599	4	5	4	2	5	20	80
DHARANI.V	CB18S439600	3	5	5	5	5	23	92
NANDHINI.P	CB18S439602	5	5	5	4	2	21	84
NIVETHA.D	CB18S439603	5	5	5	5	4	24	96
PRAVEENA.J	CB18S439604	5	5	5	5	3	23	92
VIGNESH.S	CB18S439605	4	4	4	4	4	20	80
VIGNESHKUMAR.M	CB18S439606	5	5	5	5	5	25	100
YAZHINI.G	CB18S439607	4	5	5	5	5	24	96
Average		4.50	4.90	4.70	4.40	3.90		



Expected Attainment in each CO - 85%

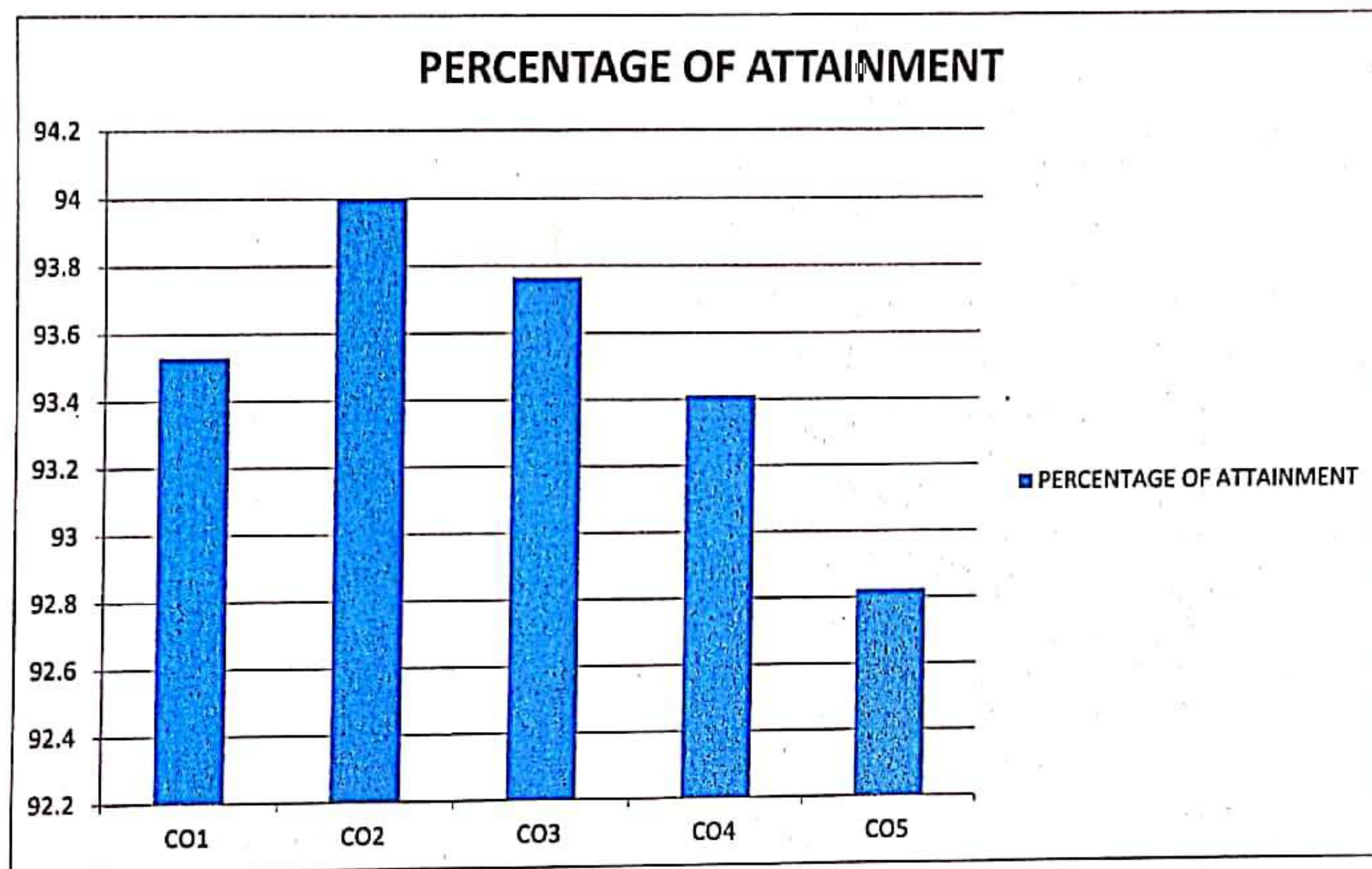
CO	Internal Exam	External Exam	Total	%
CO1	4.5	75	79.5	93.53
CO2	4.9	75	79.9	94.00
CO3	4.7	75	79.7	93.76
CO4	4.4	75	79.4	93.41
CO5	3.9	75	78.9	92.82

COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME: Theoretical Physics
 SUBJECT CODE : 16SCCPH9
 NO.OF STUDENTS : 10

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	93.53
CO2	94.00
CO3	93.76
CO4	93.41
CO5	92.82





COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME : Theoretical Physics

SUBJECT CODE : 16SCCPH9

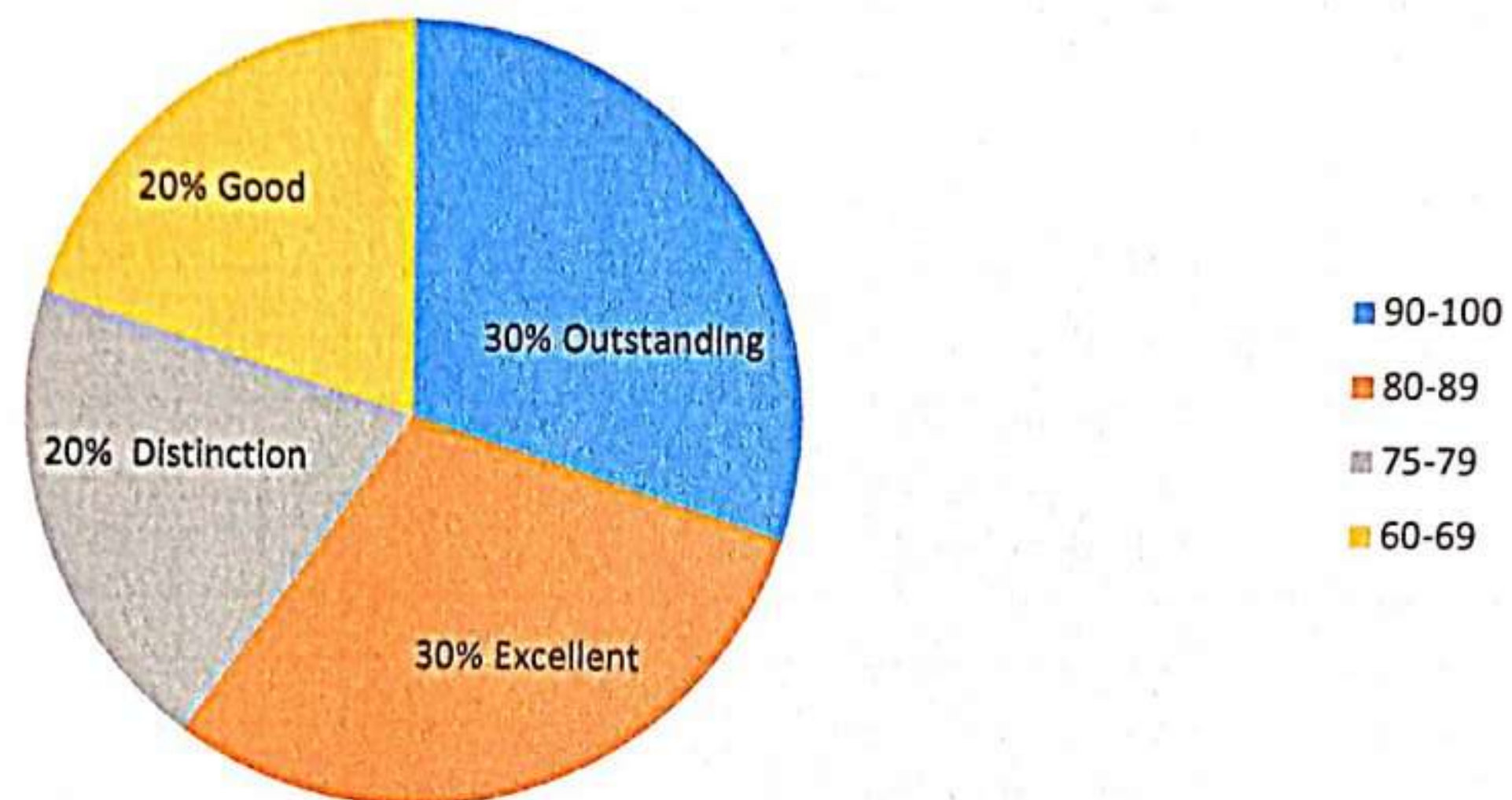
NO.OF STUDENTS : 10

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	3	OUTSTANDING
80-89	3	EXCELLENT
75-79	2	DISTINCTION
70-74	0	VERY GOOD
60-69	2	GOOD
50-59	0	AVERAGE
0-49	0	RE-APPEAR

CATEGORY	PERCENTAGE	STATUS
90-100	30.00	OUTSTANDING
80-89	30.00	EXCELLENT
75-79	20.00	DISTINCTION
60-69	20.00	GOOD



COURSE OUTCOME ASSESSMENT



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16SMBEPH3 Communication Physics

COURSE OUTCOME

CO1	To understand the made on the memory and Basic components of computer
CO2	To understand the architecture and basic instructions of 8085
CO3	Write assembly language for the microprocessor intel 8085
CO4	To understand the basic structure of C and variables, constant
CO5	To understand the basic instruction and branch statements

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	0	1	0	1
CO2	2	0	1	0	0
CO3	0	1	1	1	1
CO4	1	2	0	1	0
CO5	1	0	0	1	1
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB18S 439597	ABISHEK J	4	4	5	5	5	23	92
CB18S 439598	AKILA V	4	4	4	4	4	20	80
CB18S 439599	BHARATHIRAJA P	4	4	4	5	5	23	92
CB18S 439600	DHARANI V	5	5	4	4	4	23	92
CB18S 439602	NANDHINI P	4	4	4	5	5	22	88
CB18S 439603	NIVETHA D	5	5	4	4	4	22	88
CB18S 439604	PRAVEENA J	4	4	5	5	4	22	88
CB18S 439605	VIGNESH S	4	4	4	5	5	22	88
CB18S 439606	VINESH KUMAR M	5	5	5	5	4	24	96
CB18S 439607	YAZHINI G	5	5	5	4	4	23	92
Average		4.40	4.40	4.40	4.60	4.40		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.4	75	79.4	93.41
CO2	4.4	75	79.4	93.41
CO3	4.4	75	79.4	93.41
CO4	4.6	75	79.6	93.65
CO5	4.4	75	79.4	93.41

Course Attainment for B.Sc Physics

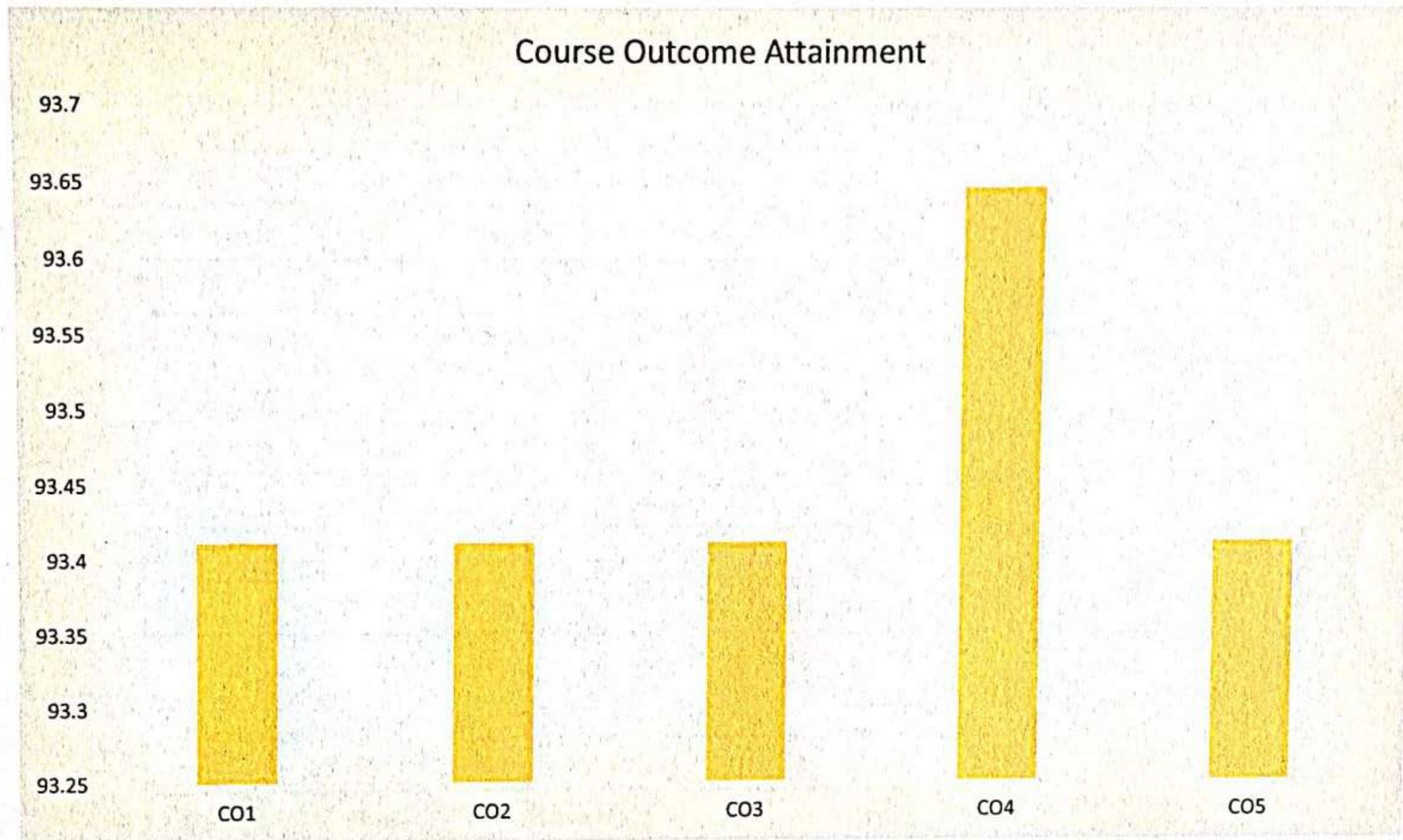
Subject Name: Communication Physics

Subject Code: 16SMBEPH3

Number of Students: 10

Course Outcome	Percentage of Attainment
CO1	93.41
CO2	93.41
CO3	93.41
CO4	93.65
CO5	93.41





Course Attainment for B.Sc Physics

Subject Name: Communication Physics

Subject Code: 16SMBEPH3

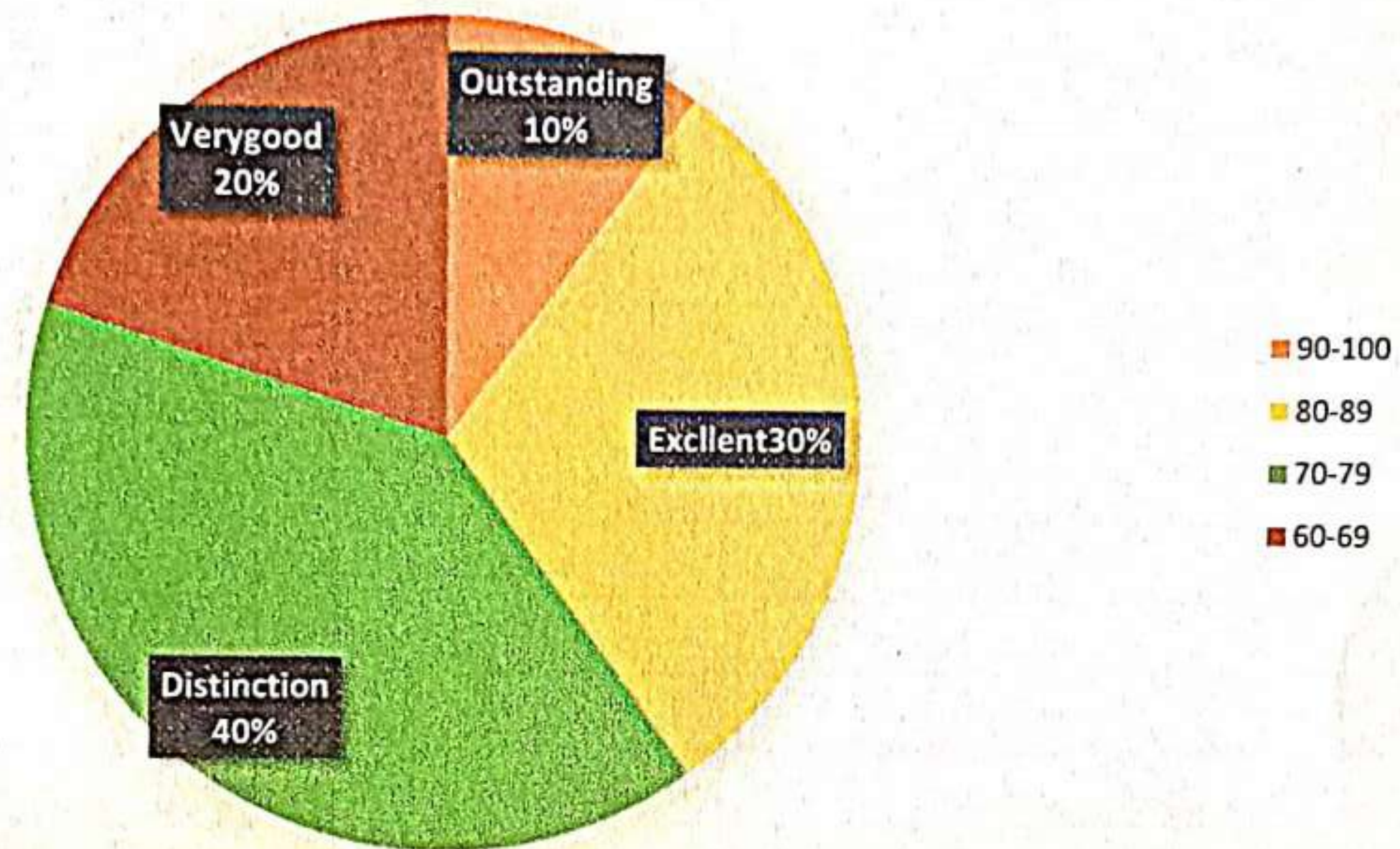
Number of Students: 10

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	1	Outstanding
80-89	3	Excellent
70-79	4	Distinction
60-69	2	Very Good
50-59	0	Good
40-49	0	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	10	Outstanding
80-89	30	Excellent
70-79	40	Distinction
60-69	20	Very Good



Course Outcome Assessment in Percentage



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PO1	To find this course introduces to the methods of experimental physics.
PO2	An ability will be given on laboratory techniques such as accuracy of measurements & Data analysis.
PO3	To calculate basic experimental apparatus common to the study of physical phenomena.
PO4	To measure the interrelations between theory and observation the role of systematic and random experimental errors and methods used to analyze experimental uncertainty and compare experiment with theory.
PO5	To communicate scientific ideas effectively both orally and in writing.

16SCCPH1P-MAJOR PRACTICAL-I

COURSE OUTCOME

CO1	To find the young's modulus of materials.
CO2	To determine the heat capacities of liquids and solids.
CO3	To calculate viscosity and surface tension of liquids from measurements.
CO4	To measure simple electrical and magnetic quantities such as voltage, current, resistance, earth's magnetic field.
CO5	To realize the formation of spectrum with prism and grating.

16SCCPH2P-MAJOR PRACTICAL-II

COURSE OUTCOME

CO1	To analyse the spectral lines using prism.
CO2	To convert the galvanometer into millimetre and millivolt meter and calibrate.
CO3	To determine capacitances and inductances using various bridge circuits.
CO4	To find wavelength of monochromatic light by forming Newton's rings.
CO5	To determine the pH, solubility and density of precursor solutions.



16SCCPH3P-MAJOR PRACTICAL-III

COURSE OUTCOME

CO1	To find the refractive index value.
CO2	To determine the value of M, EMF, Thermistor and Inductance.
CO3	To determine the series and parallel resonance
CO4	To construction and verification Logic gates
CO5	To construction and verification of OP-amp

16SCCPH4P-MAJOR PRACTICAL-IV

COURSE OUTCOME

CO1	To find the Wavelength, Dispersive power and Cauchy's constant
CO2	To determine the value of M and H, voltmeter calibration
CO3	To construction and characteristics amplifier, oscillator
CO4	To write ALP of arithmetic of intel 8085
CO5	To write ALP of Conversion of intel 8085



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16SCCPH1-PROPERTIES OF MATTER& ACOUSTICS

PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts
PO2	To understand the structure, characteristics of various physical phenomena and their properties
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

COURSE OUTCOME

CO1	To understand the fundamentals laws of impact,particle projected in any direction&concept of Direct&oblique impact.
CO2	To understand the expression for normal acceleration&variation of "g" with altitude,latitude and depth.
CO3	To understand the determine the Newton's law of gravitation and analysis of gravitational potential and field.
CO4	To understand laws of friction,fundamental process of moment of inertia recognizing Kater's pendulum.
CO5	The course foundation of centre of gravity in accordance with atmospheric pressure.



PO→	PO1	PO2	PO3	PO4	PO5
CO↓					
CO1	3	3	3	2	3
CO2	0	1	1	1	1
CO3	0	2	2	2	1
CO4	2	1	1	2	2
CO5	3	3	0	1	2
Average	1.6	2	1.4	1.6	0.8

• Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB21S448426	SAKTHIVEL.M	5	4	4	4	4	21	84
Average		5.00	4.00	4.00	4.00	4.00	21.00	

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	5	75	80	94.12
CO2	4	75	79	92.94
CO3	4	75	79	92.94
CO4	4	75	79	92.94
CO5	4	75	79	92.94

Course Attainment for B.Sc Physics

Subject Name: PROPERTIES OF MATTER& ACOUSTICS

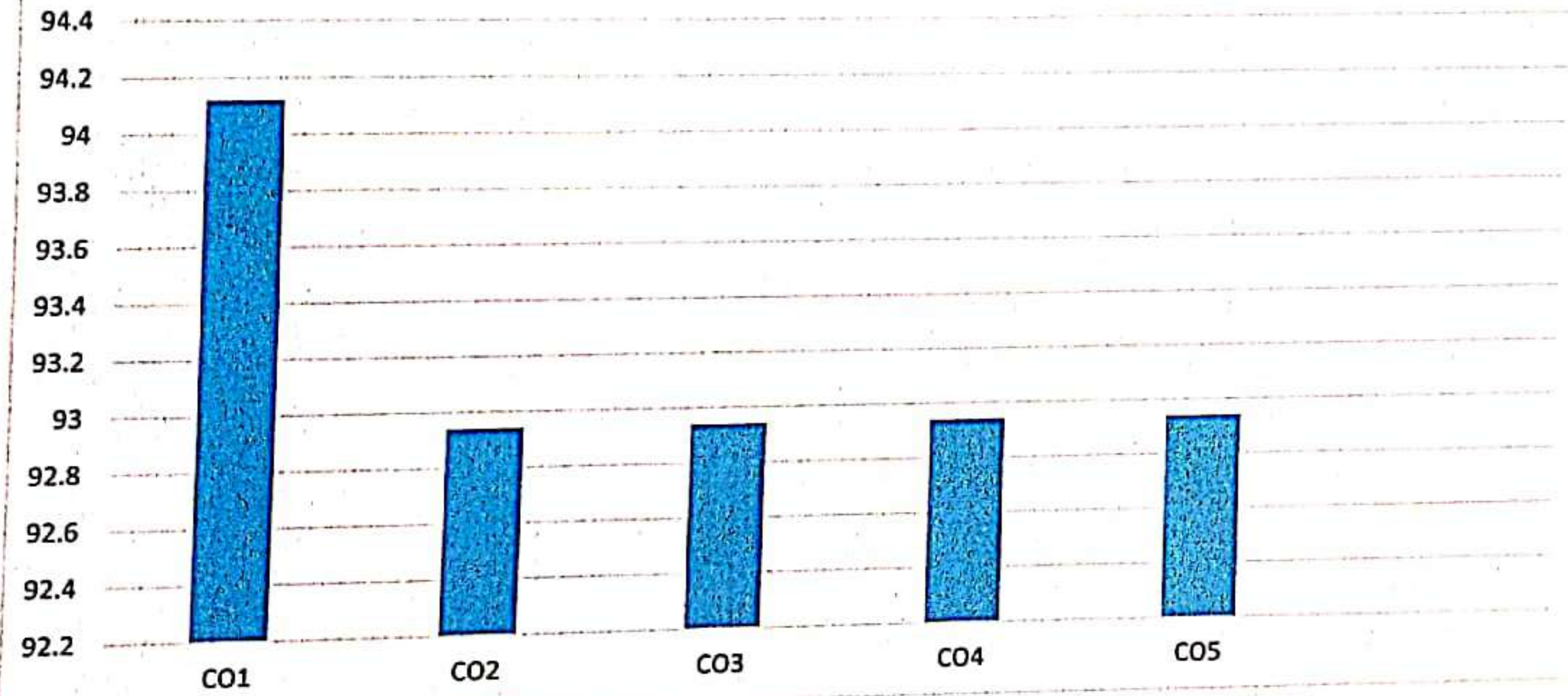
Subject Code: 16SCCPH1

Number of Students: 1

Course Outcome	Percentage of Attainment
CO1	94.12
CO2	92.94
CO3	92.94
CO4	92.94
CO5	92.94



Chart Title



Course Attainment for B.Sc Physics

Subject Name: PROPERTIES OF MATTER& ACOUSTICS

Subject Code: 16SCCPH1

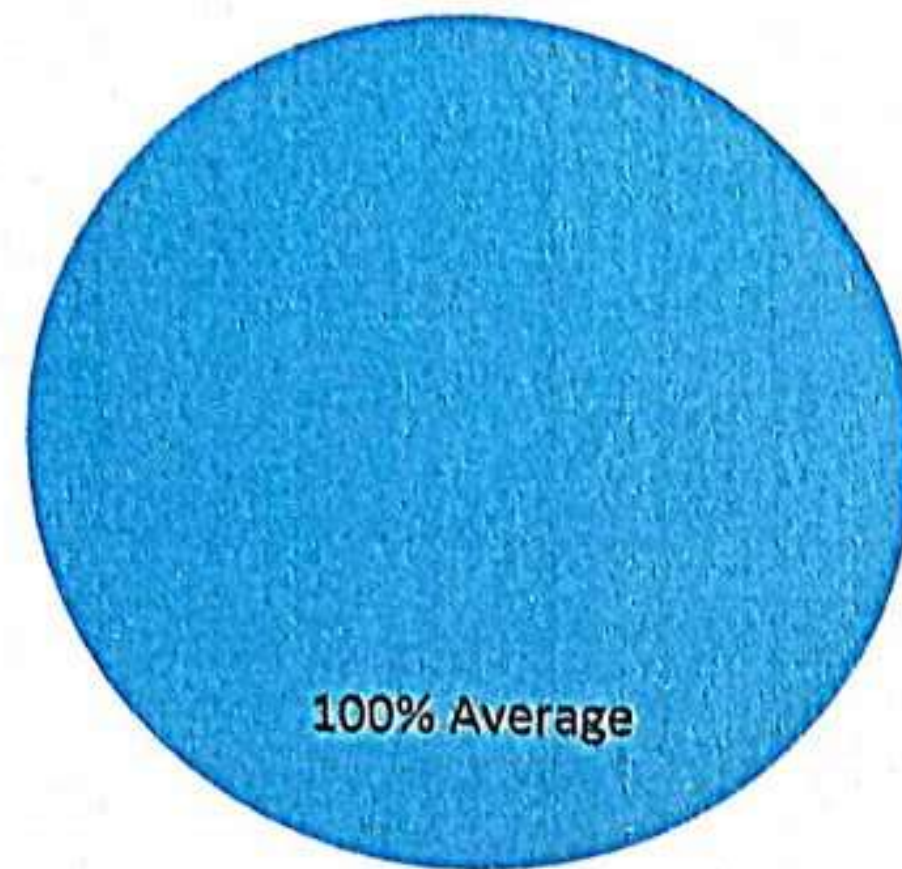
Number of Students: 1

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstaning
80-89	0	Excellent
75-79	0	Distinction
70-74	0	Very Good
60-69	0	Good
50-59	1	Average
0-49	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
50-5	100%	Average



50-59



■ Percentage



A handwritten signature in green ink, appearing to read "C. S. Srinivasan".

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16SCCPH2-MECHANICS
COURSE OUTCOME

CO1	To understand the fundamentals laws of impact,particle projected in any direction&concept of Direct&oblique impact.
CO2	To understand the expression for normal acceleration&variation of g with altitude,latitude and depth.
CO3	To understand the determine the Newton's law of gravitation and analysis of gravitational potential and field.
CO4	To understand laws of friction,fundamental process of moment of inertia recognizing Kater's pendulum.
CO5	The course foundation of centre of gravity in accordance with atmospheric pressure.

PO→ CO↓	PO1	PO2	PO3	PO4	P05
CO1	3	3	3	2	3
CO2	0	1	1	1	1
CO3	0	2	2	2	1
CO4	2	1	1	2	2
CO5	3	3	0	1	2
Average	1.6	2	1.4	1.6	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB21S448426	SAKTHIVEL M	5	4	4	4	4	21	84
Average		5.00	4.00	4.00	4.00	4.00		

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	5.00	75	80	94.12
CO2	4.00	75	79	92.94
CO3	4.00	75	79	92.94
CO4	4.00	75	79	92.94
CO5	4.00	75	79	92.94

Course Attainment for B.Sc Physics

Subject Name: Mechanics

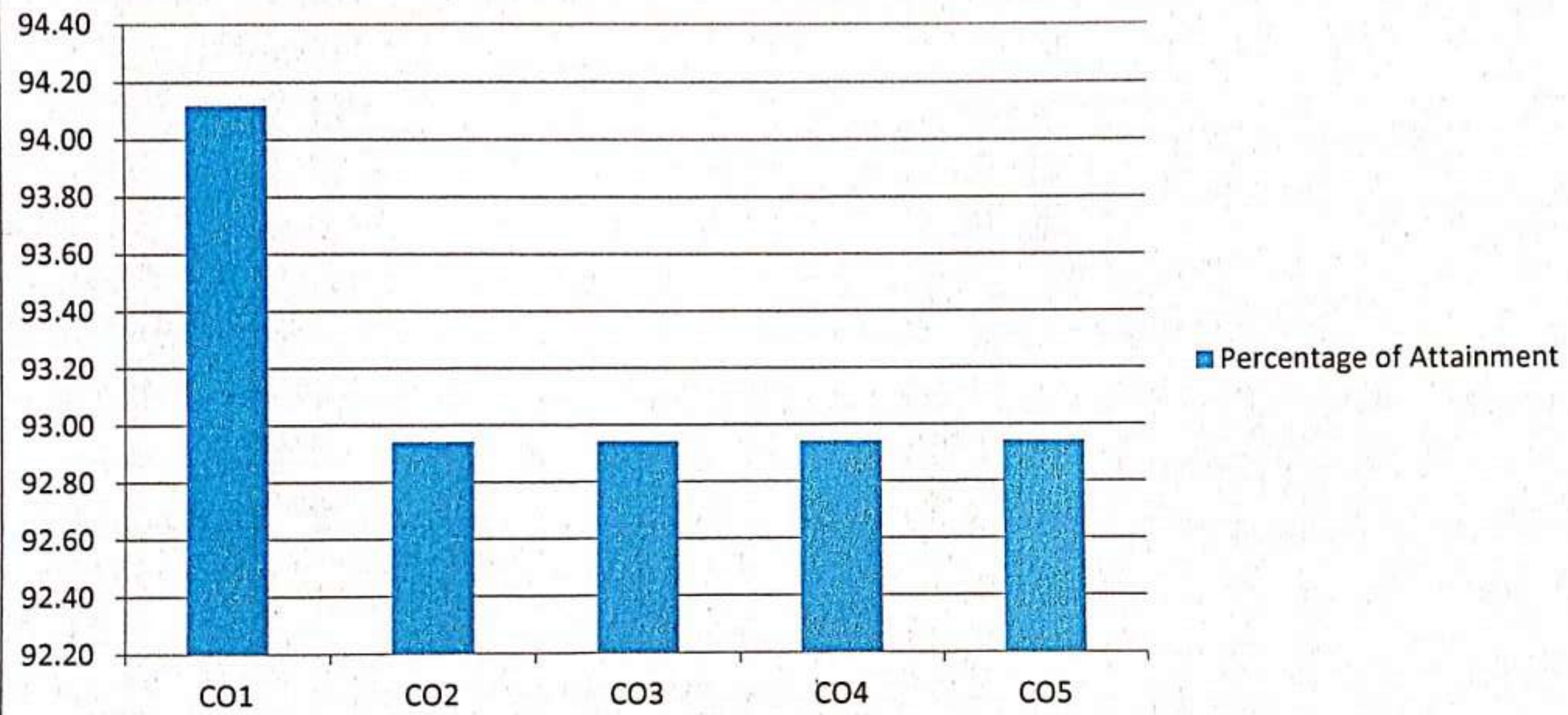
Subject Code: 16SCCPH2

Number of Students: 1

Course Outcome	Percentage of Attainment
CO1	94.12
CO2	92.94
CO3	92.94
CO4	92.94
CO5	92.94



Percentage of Attainment



Course Attainment for B.Sc Physics

Subject Name: Mechanics

Subject Code: 16SCCPH2

Number of Students: 1

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
75-79	0	Distinction
70-74	0	Very Good
60-69	0	Good
50-59	1	Average
0-49	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
50-59	100	Average



50-59



■ Percentage

100% AVERAGE



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Attainment of program outcomes and course outcomes
Course Outcome-Programme Outcome Mapping
Department of Physics
PROGRAM OUTCOME

PO1	To understand the fundamentals of laws, principles and concepts.
PO2	To understand the structure, characteristics of various physical phenomena and their properties.
PO3	An ability to design analysis of circuit and interrupt data, testing of different electronics components and circuits.
PO4	To understand the implementation, Analysis fundamental process to recognizing experimental applying relevant laws to this problems.
PO5	The course built a foundation of various applied field and technology to enhance the student accordance ability & personal quality transferrable skill.

16SCCPH3- Thermal physics

COURSE OUTCOME

CO1	Learn fundamental laws, specific heat of matter.
CO2	Known about Laws of heat, properties of metals and uses conclusion of heat.
CO3	Learn Laws of Radiation, Experiment, conclusion of temperature of sun, uses of solar energy.
CO4	Principles of law Temperature, experimental, application of law temperature, cooling energy
CO5	Laws of Thermodynamics, change of reversible and irreversible processes, Thermodynamical relations.



Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH3 Thermal physics	CO1	0	2	0	0	2
	CO2	2	2	0	1	1
	CO3	0	0	1	2	1
	CO4	1	1	0	1	2
	CO5	0	1	1	0	0
	Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB20S445988	ABISHEK .M	4	4	4	4	4	20	80
CB20S445989	SARAN .V	4	4	4	4	4	20	80
CB20S445990	SASI .M	4	5	5	5	5	24	96
Average		4.00	4.33	4.33	4.33	4.33		

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4	75	79	92.94
CO2	4.33	75	79.33	93.33
CO3	4.33	75	79.33	93.33
CO4	4.33	75	79.33	93.33
CO5	4.33	75	79.33	93.33

Course Attainment for B.Sc Physics

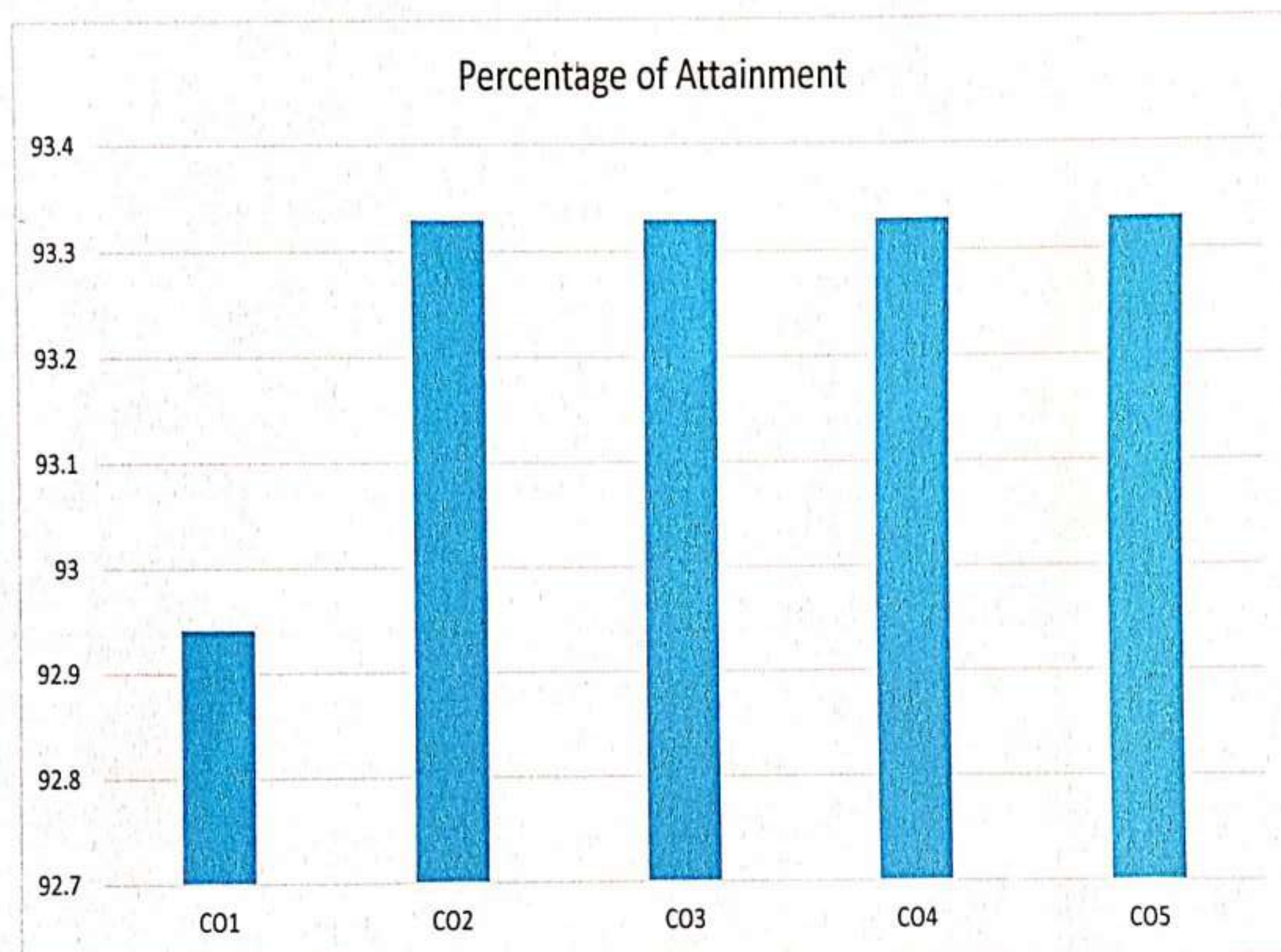
Subject Name: Thermal Physics

Subject Code: 16SCCPH3

Number of Students: 3

Course Outcome	Percentage of Attainment
CO1	92.94
CO2	93.33
CO3	93.33
CO4	93.33
CO5	93.33





Course Attainment for B.Sc Physics

Subject Name: Thermal Physics

Subject Code: 16SCCPH3

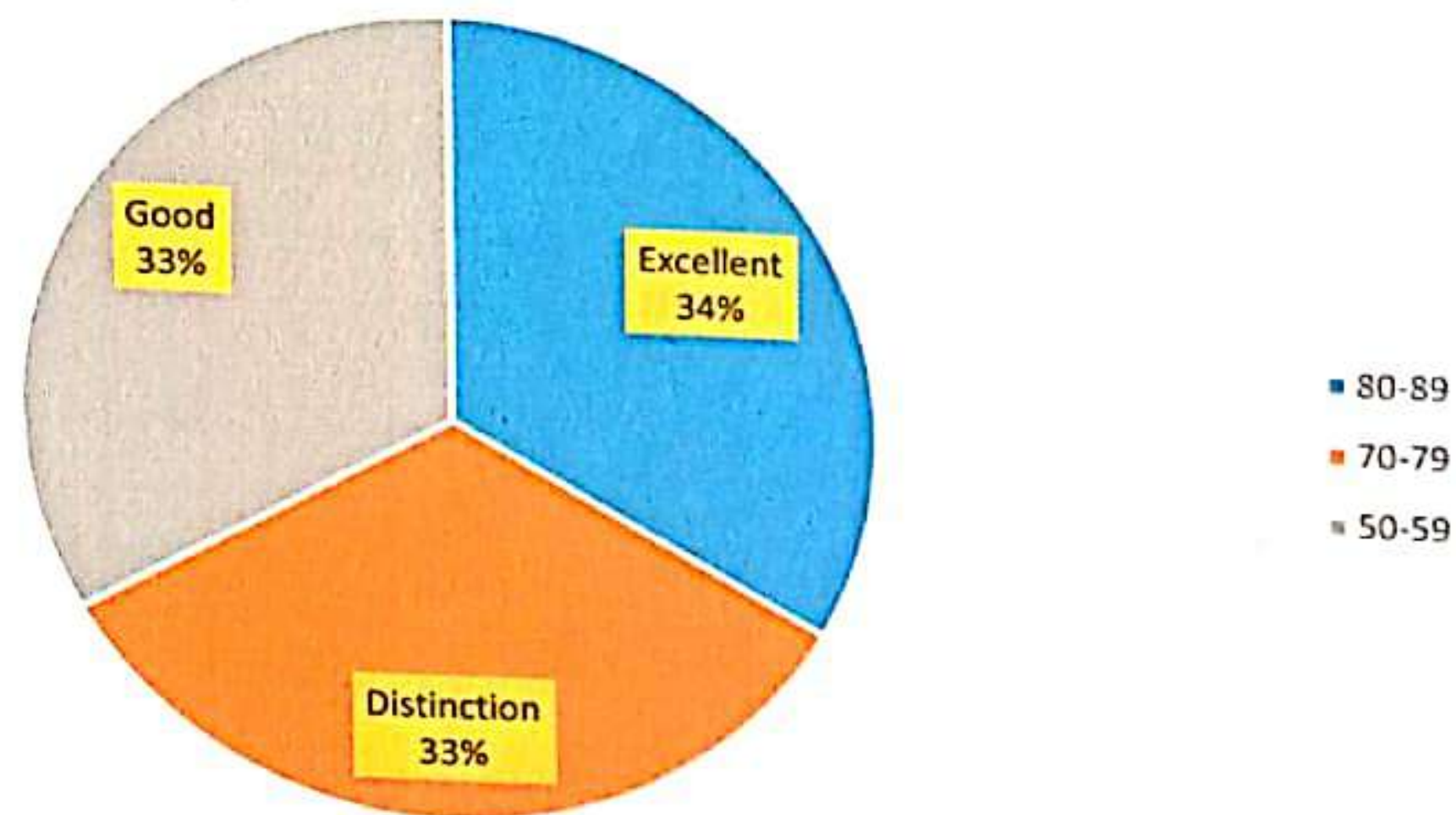
Number of Students: 3

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	1	Excellent
70-79	1	Distinction
60-69	0	Very Good
50-59	1	Good
40-49	0	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
80-89	33.33	Excellent
70-79	33.33	Distinction
50-59	33.33	Good



Course Outcome Assessment Percentage



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16SCCPH4- ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM
COURSE OUTCOME

CO1	Learn fundamental laws, specific heat of matter.
CO2	Known about Laws of heat, properties of metals and uses conclusion of heat.
CO3	Learn Laws of Radiation, Experiment, conclusion of temperature of sun, uses of solar energy.
CO4	Principles of law Temperature, experimental, application of law temperature, cooling energy
CO5	Laws of Thermodynamics, change of reversible and irreversible processes, Thermodynamical relations.

Course Code & Course Code	PO→	PO1	PO2	PO3	PO4	PO5
	CO↓					
16SCCPH4- ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM	CO1	2	0	1	1	0
	CO2	2	1	1	1	1
	CO3	1	0	0	0	1
	CO4	1	1	1	0	2
	CO5	0	2	0	1	1
	Average	1.2	0.8	0.6	0.6	0.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.No	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB20S445988	ABISHEK .M	4	4	4	4	4	20	80
2	CB20S445989	SARAN .V	4	4	3	3	4	18	72
3	CB20S445990	SASI .M	5	5	5	5	4	24	96
Average			4.33	4.33	4.00	4.00	4.00		

Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4	75	79	92.94
CO2	4.33	75	79.33	93.33
CO3	4	75	79	92.94
CO4	4	75	79	92.94
CO5	4	75	79	92.94

Course Attainment for B.Sc Physics

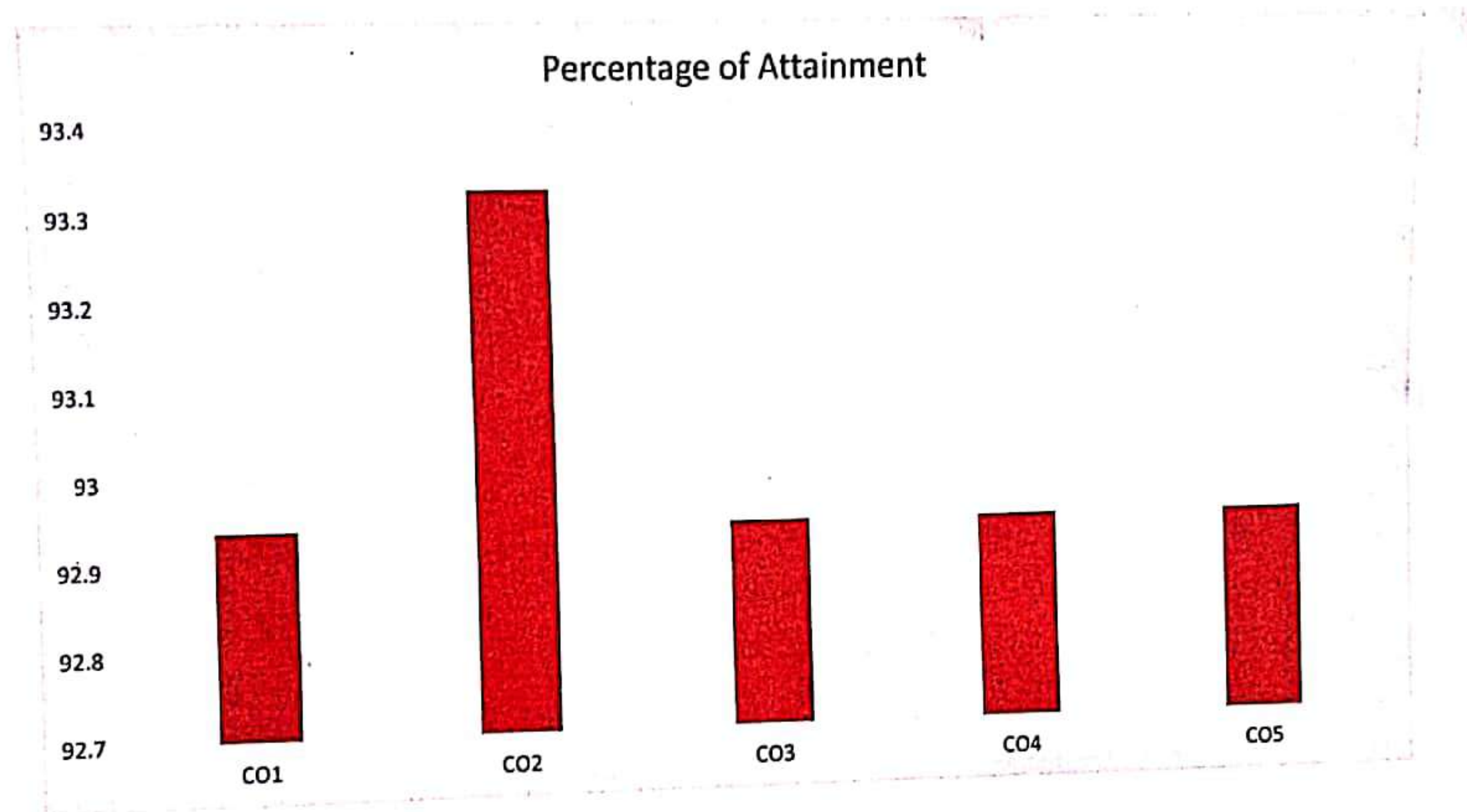
Subject Name: ELECTRICITY,MAGNETISM AND ELECTROMAGNETISM

Subject Code: 16SCCPH4

Number of Students: 3

Course Outcome	Percentage of Attainment
CO1	92.94
CO2	93.33
CO3	92.94
CO4	92.94
CO5	92.94





Course Attainment for B.Sc Physics

Subject Name: ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM

Subject Code: 16SCCPH4

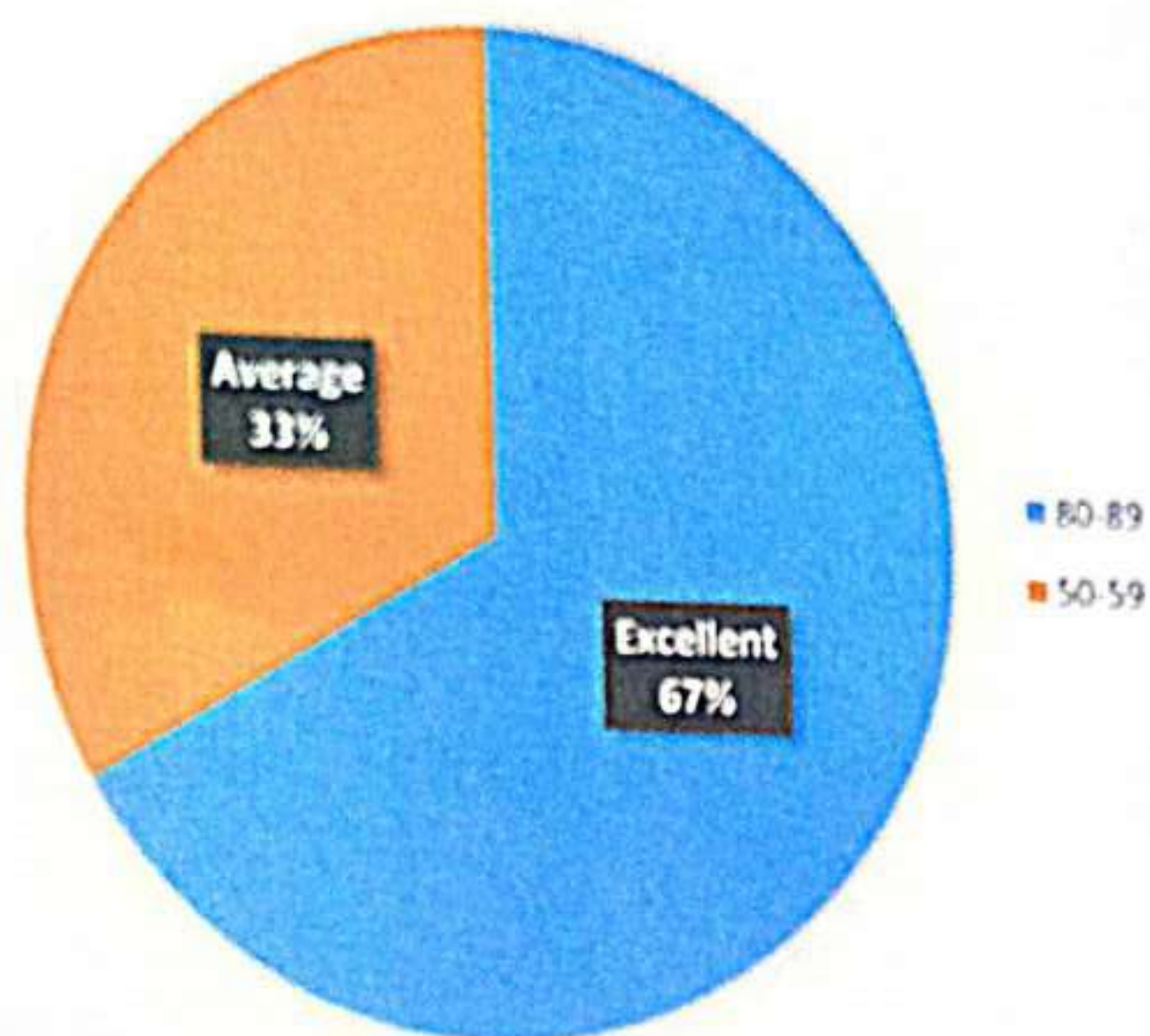
Number of Students: 3

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	2	Excellent
75-79	0	Distinction
70-74	0	Very Good
60-69	0	Good
50-59	1	Average
0-49	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
80-89	66.67	Excellent
50-59	33.33	Average



Course Outcome Assessment Percentage



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16SCCPH5 - Optics
COURSE OUTCOME

CO1	Study different types of Spherical aberration and Chromatic aberration in a lens
CO2	Fundamental of Stationary waves and its applications of Interference
CO3	To study differentiate Fresnel's diffraction and Fraunhofer diffraction.
CO4	To understand fundamental process of double Image polarizing prism and experimental of Laurent's half shade polarimeter
CO5	To understand various types of Eyepieces and accordance with microscope and Telescope.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	2	2	0	1	0
CO2	3	2	0	2	0
CO3	2	3	2	2	2
CO4	3	3	3	3	3
CO5	3	3	0	2	2
Average	2.6	2.6	1	2	1.4

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Name	Register No	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
ABRANA.M	CB19S 442826	5	3	3	3	3	17	68
BHAKKIYA LAKSHMI K	CB19S 442827	2	3	4	4	3	16	64
JEGAN J	CB19S 442828	2	2	2	2	3	11	44
KIRUTHIKA K	CB19S 442830	5	5	5	5	4	24	96
NOWSHITHA H	CB19S 442831	3	3	3	4	4	17	68
RAJADURAI R	CB19S 442832	2	2	3	3	2	12	48
RANJITH M	CB19S 442833	3	3	2	2	2	12	48
RANJITH KUMAR M	CB19S 442834	2	2	2	3	3	12	48
SANJAY S	CB19S 442835	2	2	3	2	2	11	44
SANTHIYA DHARSHINI V	CB19S 442836	5	4	3	3	3	18	72
SWETHA B	CB19S 442837	4	5	4	5	5	23	92
Average		3.18	3.09	3.09	3.27	3.09		



Expected Attainment in each CO - 85%

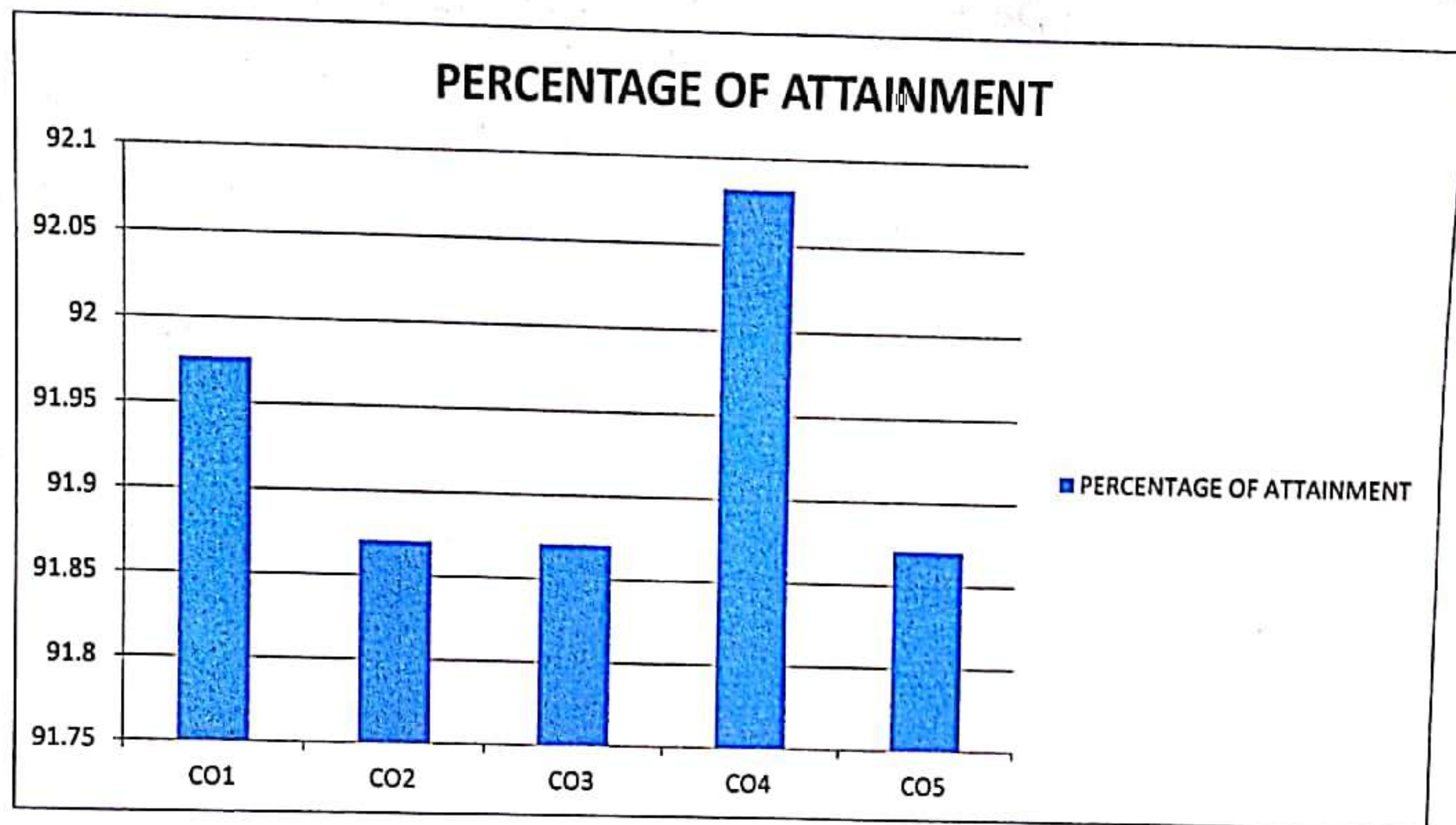
CO	Internal Exam	External Exam	Total	%
CO1	3.18	75	78.18	91.98
CO2	3.09	75	78.09	91.87
CO3	3.09	75	78.09	91.87
CO4	3.27	75	78.27	92.08
CO5	3.09	75	78.09	91.87

COURSE ATTAINMENT FOR B.Sc Physics

SUBJECT NAME: Optics
 SUBJECT CODE : 16SCCPH5
 NO.OF STUDENTS : 11

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	91.98
CO2	91.87
CO3	91.87
CO4	92.08
CO5	91.87





COURSE ATTAINMENT FOR B.Sc Physics

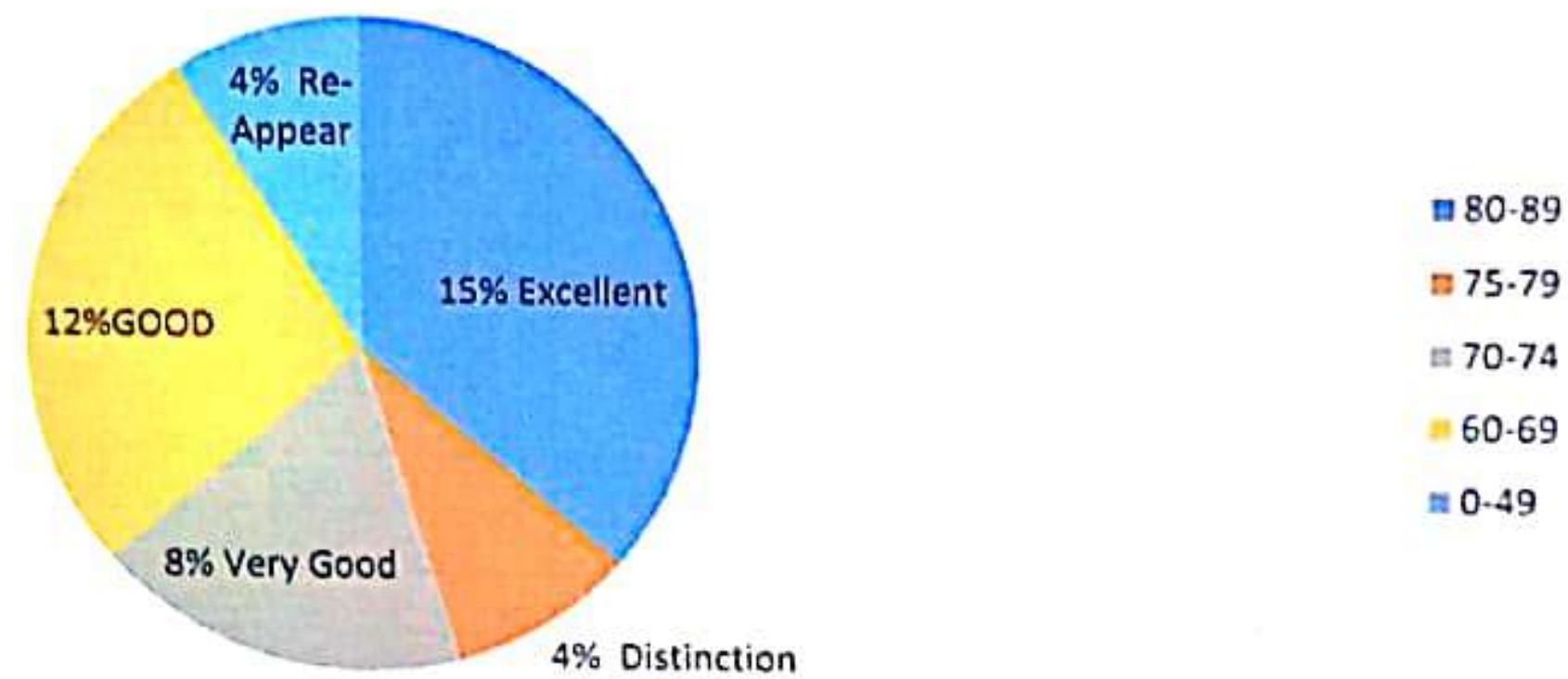
SUBJECT NAME : Optics
 SUBJECT CODE : 16SCCPH5
 NO.OF STUDENTS : 11

COURSE OUTCOME ASSESSMENT		
CATEGORY (MARKS)	NO.OF STUDENTS	STATUS
90-100	0	OUTSTANDING
80-89	4	EXCELLENT
75-79	1	DISTINCTION
70-74	2	VERY GOOD
60-69	3	GOOD
50-59	0	AVERAGE
0-49	1	RE-APPEAR

CATEGORY	PERCENTAGE ATTAINMENT	STATUS
80-89	15.38	EXCELLENT
75-79	3.85	DISTINCTION
70-74	7.69	VERY GOOD
60-69	11.54	GOOD
0-49	3.85	RE-APPEAR



COURSE OUTCOME ASSESSMENT



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16SCCPH6 - Atomic and Molecular physics
COURSE OUTCOME

CO1	Study properties of rays, production, charge calculation by experimental.
CO2	Fundamental of atom, structure, principles and effect of experiments.
CO3	Production and detection of x-rays, Laws of x-rays and characteristics of x-rays.
CO4	Properties of metals, photo electric effect, experimental arrangement and verification, applications.
CO5	LASER properties, concepts, experimental and applications.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	2	0	1	1
CO2	3	3	0	2	1
CO3	2	1	1	1	2
CO4	2	3	2	3	3
CO5	3	3	0	2	2
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.No	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB19S 442826	ABRANA.M	5	5	5	3	5	23	92
2	CB19S 442827	BHAKKIYA LAKSHMI K	4	4	4	5	5	22	88
3	CB19S 442828	JEGAN J	4	4	4	4	3	19	76
4	CB19S 442830	KIRUTHIKA K	5	5	5	5	4	24	96
5	CB19S 442831	NOWSHITHA H	4	3	3	3	3	16	64
6	CB19S 442832	RAJADURAI R	4	4	3	3	3	17	68
7	CB19S 442833	RANJITH M	3	4	3	4	3	17	68
8	CB19S 442834	RANJITH KUMAR M	4	4	3	3	4	18	72
9	CB19S 442835	SANJAY S	4	3	4	3	3	17	68
10	CB19S 442836	SANTHIYA DHARSHINI V	5	4	5	4	5	23	92
11	CB19S 442837	SWETHA B	5	5	5	5	4	24	96
Average			4.27	4.09	4.00	3.82	3.82		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.27	75	79.27	93.26
CO2	4.09	75	79.09	93.05
CO3	4	75	79	92.94
CO4	3.82	75	78.82	92.73
CO5	3.82	75	78.82	92.73

Course Attainment for B.Sc Physics

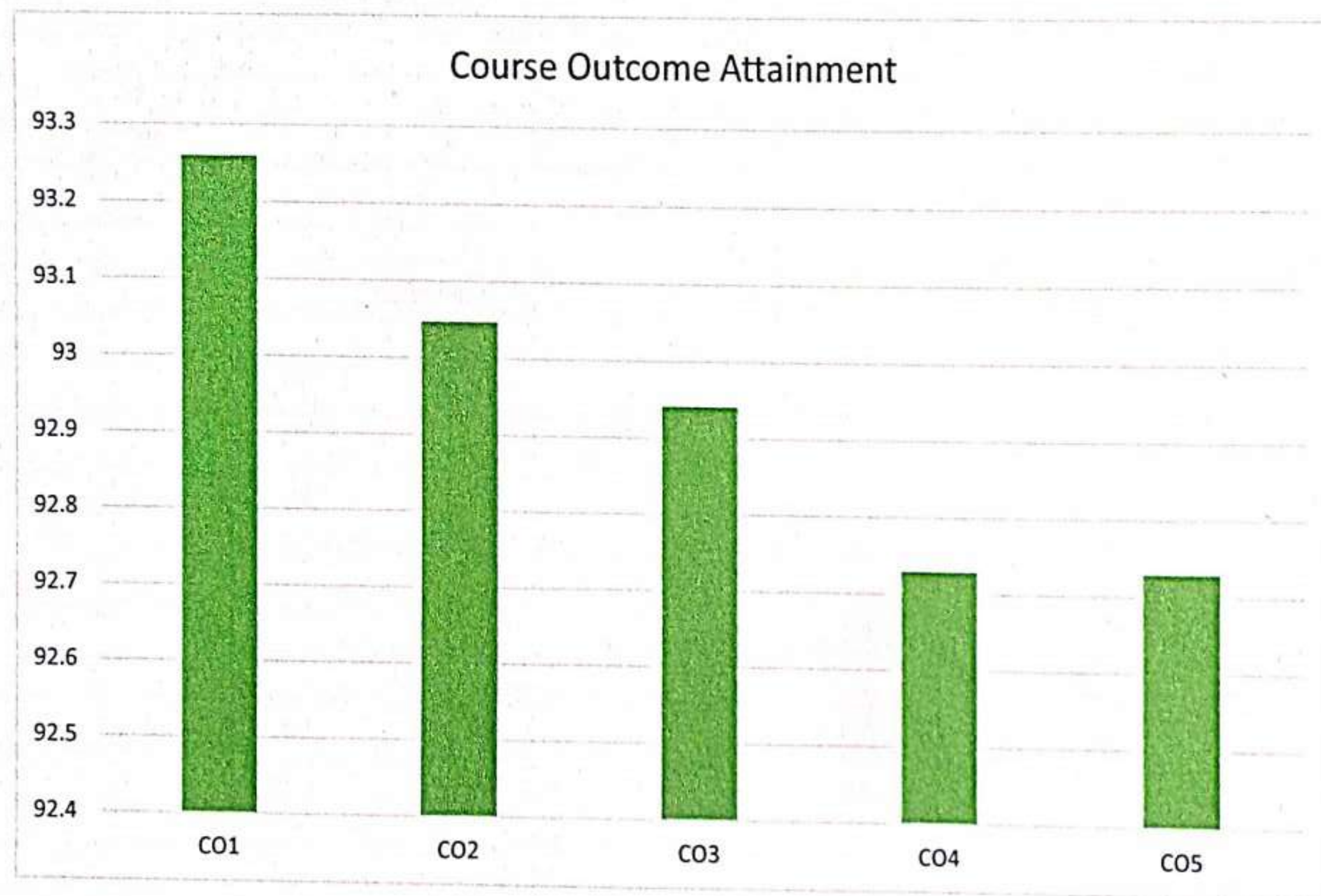
Subject Name: Atomic and Molecular Physics

Subject Code: 16SCCPH6

Number of Students: 11

Course Outcome	Percentage of Attainment
CO1	93.26
CO2	93.05
CO3	92.94
CO4	92.73
CO5	92.73





Course Attainment for B.Sc Physics

Subject Name: Atomic and Molecular Physics

Subject Code: 16SCCPH6

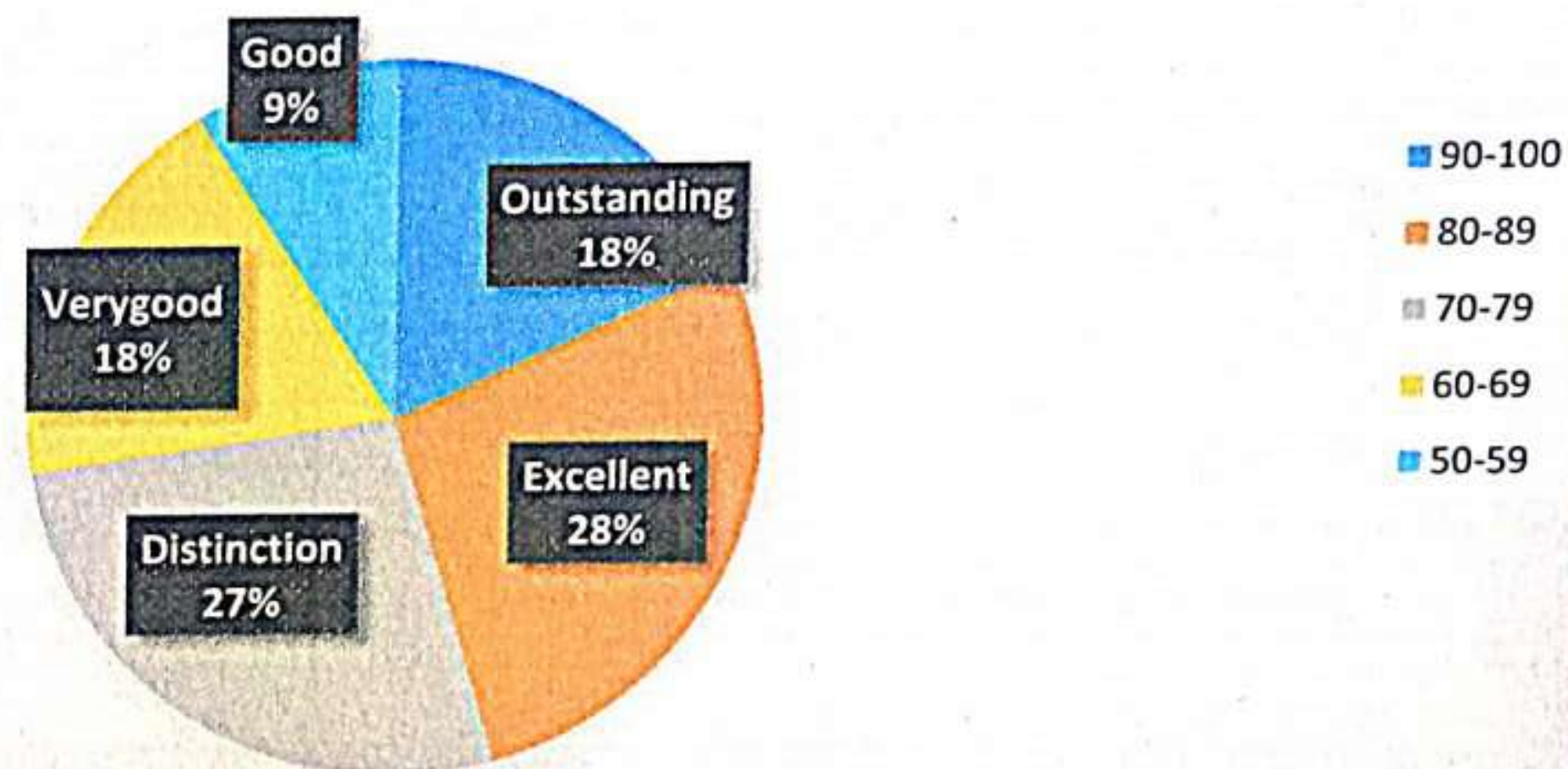
Number of Students: 11

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	2	Outstanding
80-89	3	Excellent
70-79	3	Distinction
60-69	2	Very Good
50-59	1	Good
40-49	0	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
90-100	18.18	Outstanding
80-89	27.27	Excellent
70-79	27.27	Distinction
60-69	18.18	Very Good
50-59	9.09	Good



Course Outcome Assessment



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16SCCPH7 - ELECTRONICS

COURSE OUTCOME

CO1	To understand the features of semiconductor and zener diode and their fundamental concepts
CO2	Design different types of oscillator.
CO3	Understand the working of basic gates.
CO4	Choose flip flop for a particular application.
CO5	Design operational amplifier circuits and to analyse their properties.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	3	3	0	1	2
CO2	1	3	2	2	1
CO3	0	1	1	3	2
CO4	0	1	2	1	3
CO5	0	0	0	2	2
Average	0.8	1.6	1	1.8	2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB19S 442826	ABRANA.M	4	5	5	5	5	24	96
CB19S 442827	BHAKKIYA LAKSHMI K	4	3	4	5	5	21	84
CB19S 442828	JEGAN J	4	4	4	3	3	18	72
CB19S 442830	KIRUTHIKA K	5	5	5	5	4	24	96
CB19S 442831	NOWSHITHA H	4	3	3	3	3	16	64
CB19S 442832	RAJADURAI R	4	4	3	4	3	18	72
CB19S 442833	RANJITH M	3	4	3	4	4	18	72
CB19S 442834	RANJITH KUMAR M	4	4	3	4	4	19	76
CB19S 442835	SANJAY S	4	3	4	3	3	17	68
CB19S 442836	SANTHIYA DHARSHINI V	5	4	5	5	5	24	96
CB19S 442837	SWETHA B	5	5	5	5	4	24	96
Average		4.18	4.00	4.00	4.18	3.91		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.18	75	79.18	93.15
CO2	4	75	79	92.94
CO3	4	75	79	92.94
CO4	4.18	75	79.18	93.15
CO5	3.91	75	78.91	92.84

COURSE ATTAINMENT FOR B.Sc physics

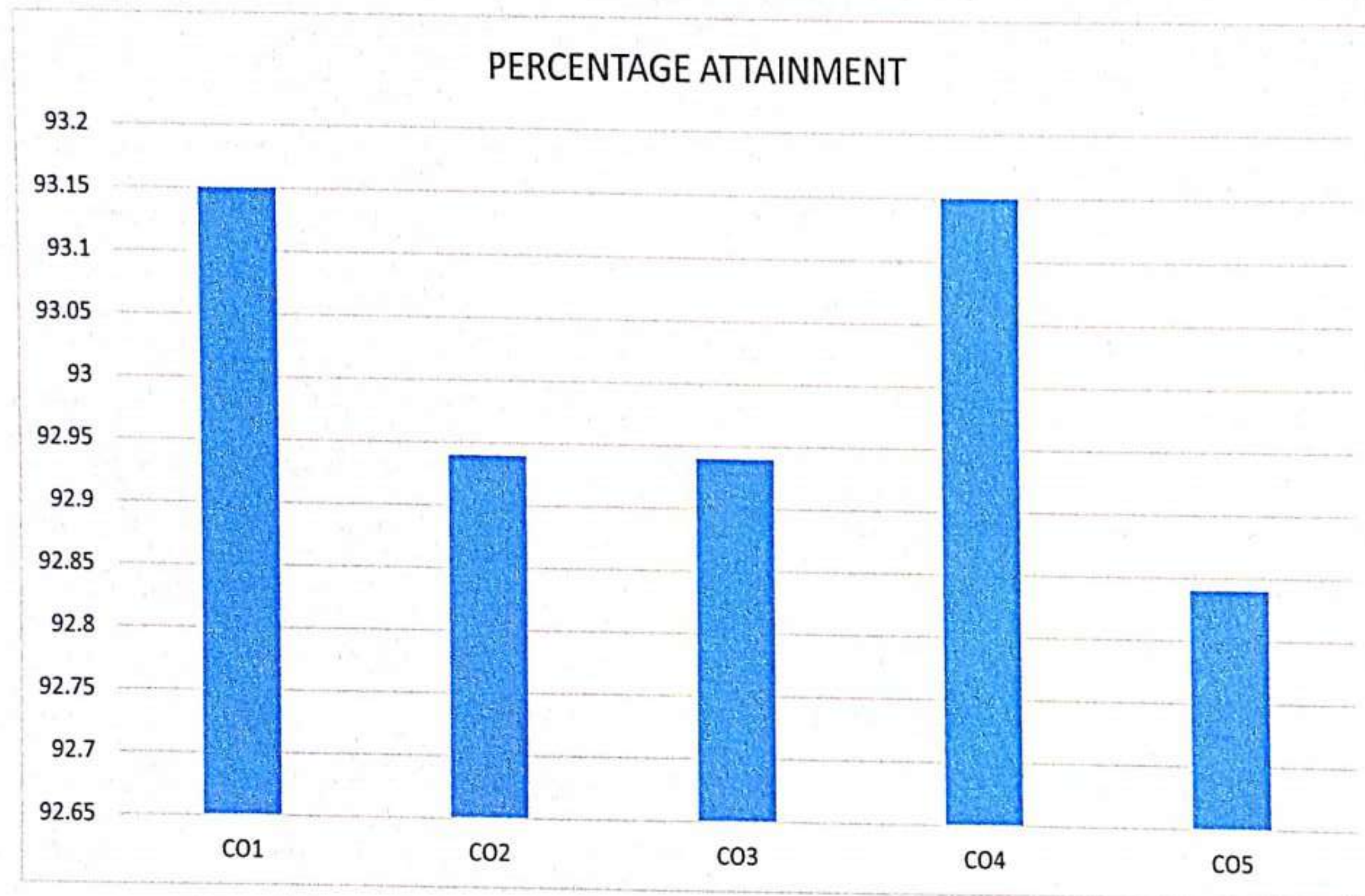
SUBJECT NAME: ELECTRONICS

SUBJECT CODE :16SCCPH7

NO OF STUDENTS:11

COURSE OUTCOME	PERCENTAGE ATTAINMENT
CO1	93.15
CO2	92.94
CO3	92.94
CO4	93.15
CO5	92.84





COURSE ATTAINMENT FOR B.Sc PHYSICS

SUBJECT NAME:ELECTRONICS

SUBJECT CODE:16SCCPH7

NO OF STUDENTS:11

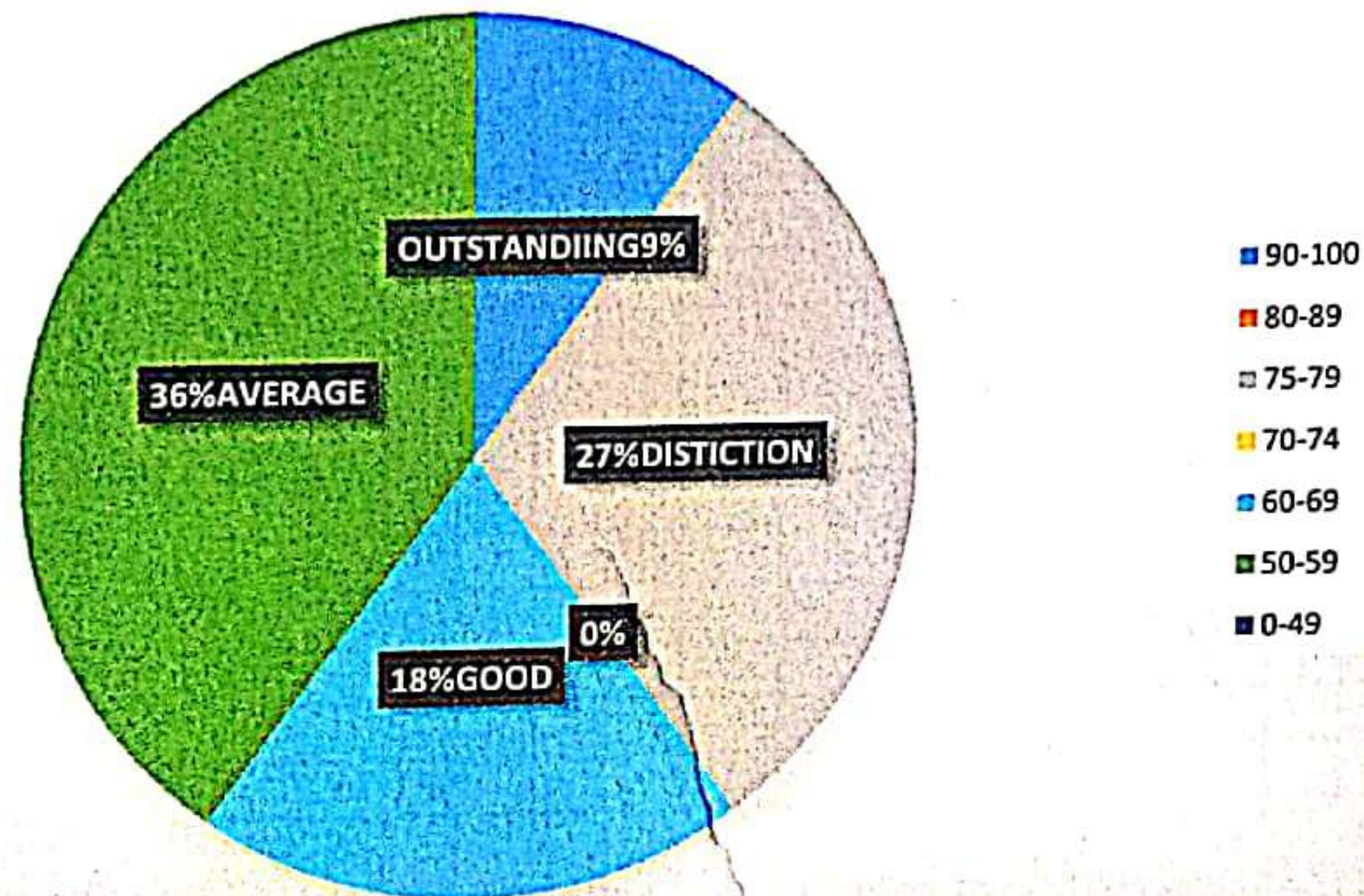
	COURSE OUTCOME ASSESSMENT	
CATEGORY	PERCENTAGE	STATUS
90-100	1	OUTSTANDING
80-89	0	EXCELLENT
75-79	3	DISTINCTION
70-74	0	VERY GOOD
60-69	2	GOOD
50-59	4	AVERAGE
0-49	0	REAPPEAR

COURSE OUTCOME ASSESSMENT

CATEGORY	PERCENTAGE	STATUS
90-100	9%	OUTSTANDING
75-79	27%	DISTINCTION
60-69	18%	GOOD
50-59	36%	AVERAGE



COURSE OUTCOME ASSESSMENT PERCENTAGE



[Signature]

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16SCCPH8- Nuclear physics

COURSE OUTCOME

CO1	The basic nuclear properties, Nuclear models
CO2	Radioactive decay law, types of decay and properties of neutrino.
CO3	Describe particle detectors and accelerators.
CO4	Nuclear reactions, conservation laws, Q-value calculations, Nuclear reactor.
CO5	Elementary particles, conservation laws, Quark model.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	0	2	0	0	2
CO2	2	2	0	1	1
CO3	0	0	1	2	1
CO4	1	1	0	1	2
CO5	0	1	1	0	0
Average	0.6	1.2	0.4	0.8	1.2

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	3.82	75	78.82	92.73
CO2	4	75	79.00	92.94
CO3	4.09	75	79.09	93.05
CO4	3.55	75	78.55	92.41
CO5	3.64	75	78.64	92.52

Course Attainment for B.Sc Physics

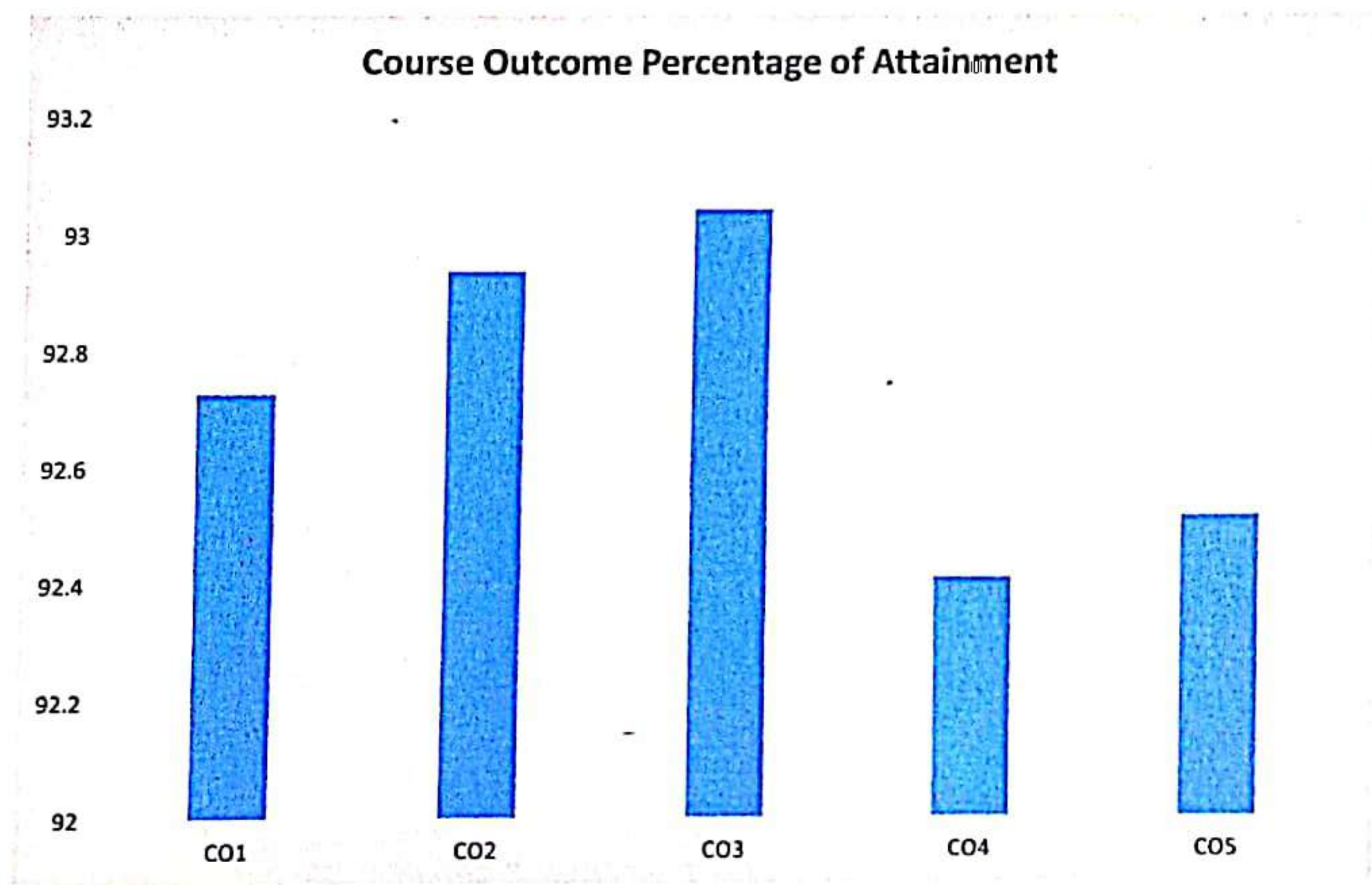
Subject Name: Nuclear physics

Subject Code: 16SCCPH8

Number of Students: 11

Course Outcome	Percentage of Attainment
CO1	92.73
CO2	92.94
CO3	93.05
CO4	92.41
CO5	92.52





Course Attainment for B.Sc Physics

Subject Name: Nuclear physics

Subject Code: 16SCCPH8

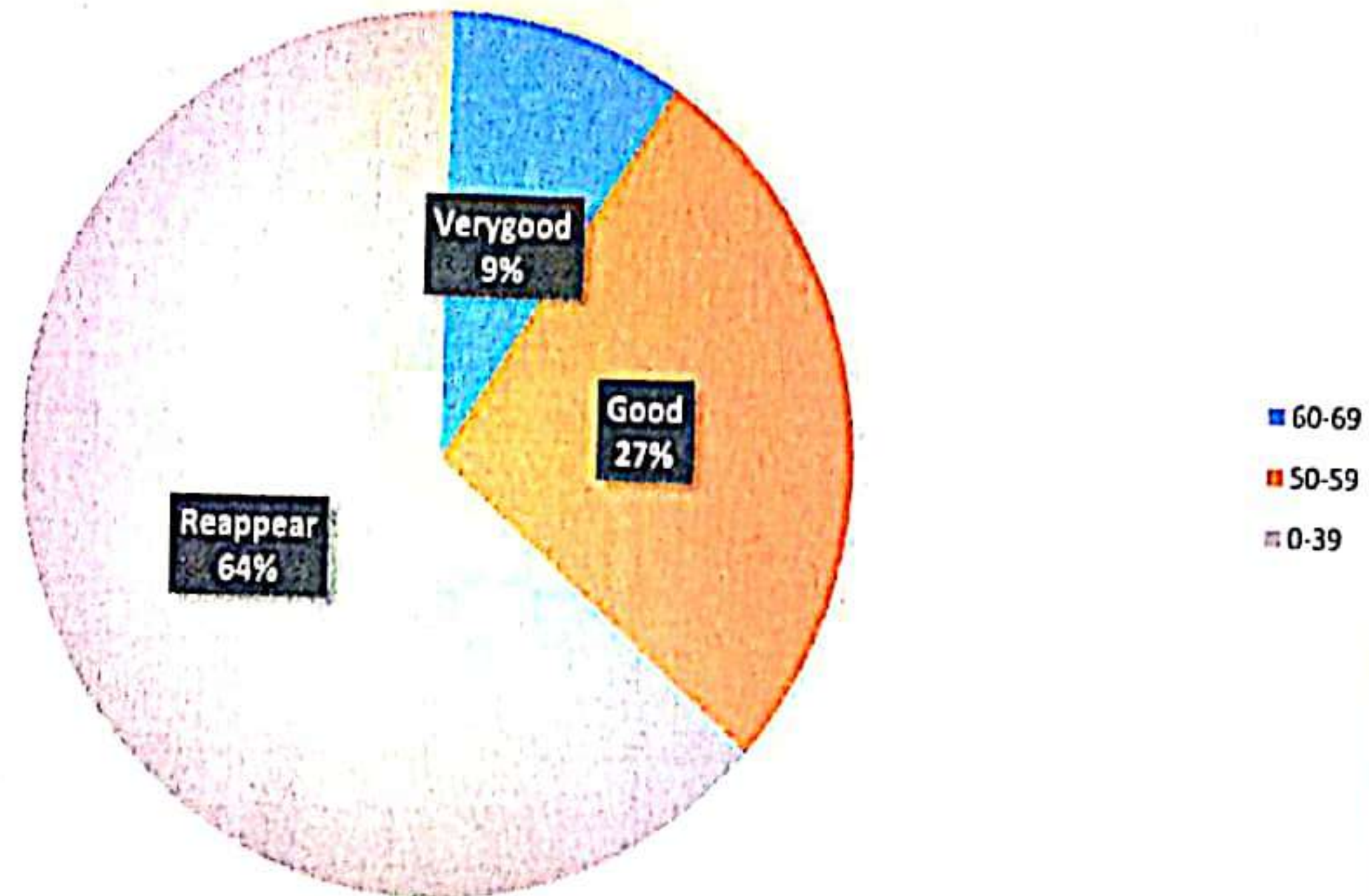
Number of Students: 11

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	0	Excellent
70-79	0	Distinction
60-69	1	Very Good
50-59	3	Good
40-49	0	Average
0-39	7	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Number of Students	Status
60-69	9.09	Very Good
50-59	27.27	Good
0-39	63.64	Reappear



Course Outcome Assessment Percentage




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16SCCPH9-THEORITICAL PHYSICS

COURSE OUTCOME

CO1	Study fundamental laws, Conservation theorem and Symmetry properties
CO2	To understand the characteristics of generalized momentum and Cyclic co-ordinate.
CO3	To understand experimental study of matter waves and Debroglie relation.
CO4	To understand the development of Schrodinger wave equation and properties of wave function
CO5	To study the foundation of Quantum system.

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	3	3	3	3	3
CO2	2	2	2	1	1
CO3	0	0	1	2	3
CO4	3	3	2	2	2
CO5	3	2	1	0	3
Average	2.2	2	1.8	1.6	2.4

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
CB19S 442826	ABRANA.M	4	5	4	5	5	23	92
CB19S 442827	BHAKKIYA LAKSHMI K	4	5	4	5	5	23	92
CB19S 442828	JEGAN J	4	4	4	4	5	21	84
CB19S 442830	KIRUTHIKA K	5	5	5	5	4	24	96
CB19S 442831	NOWSHITHA H	4	4	4	4	4	20	80
CB19S 442832	RAJADURAI R	4	4	5	4	4	21	84
CB19S 442833	RANJITH M	4	4	4	4	3	19	76
CB19S 442834	RANJITH KUMAR M	5	4	4	5	4	22	88
CB19S 442835	SANJAY S	4	4	4	4	4	20	80
CB19S 442836	SANTHIYA DHARSHINI V	4	5	4	5	5	23	92
CB19S 442837	SWETHA B	4	5	5	5	5	24	96
Average		4.18	4.45	4.27	4.55	4.36		



Expected Attainment in each CO - 85%

CO	Internal Exam	External Exam	Total	%
CO1	4.18	75	79.18	93.15
CO2	4.45	75	79.45	93.47
CO3	4.27	75	79.27	93.26
CO4	4.55	75	79.55	93.59
CO5	4.36	75	79.36	93.36

COURSE ATTAINMENT FOR B.SC PHYSICS

SUBJECT NAME : THEORITICAL PHYSICS

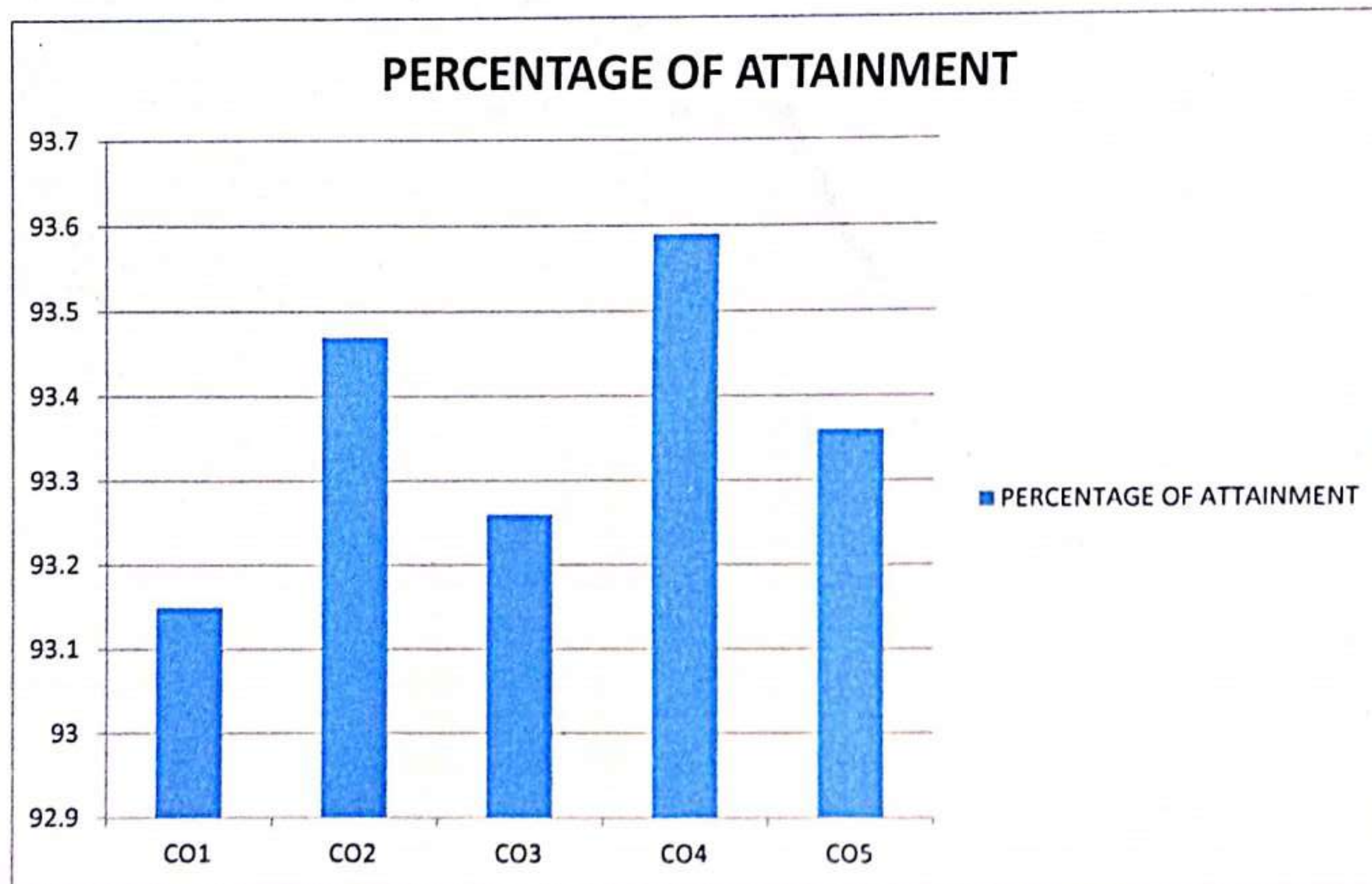
SUBJECT CODE : 16SCCPH9

NO.OF.STUDENTS : 11

COURSE OUTCOME	PERCENTAGE OF ATTAINMENT
CO1	93.15
CO2	93.47
CO3	93.26
CO4	93.59
CO5	93.36



PERCENTAGE OF ATTAINMENT



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16SMBEPH3 Communication Physics
COURSE OUTCOME

CO1	To understand the made on the memory and Basic components of computer
CO2	To understand the architecture and basic instructions of 8085
CO3	Write assembly language for the microprocessor intel 8085
CO4	To understand the basic structure of C and variables, constant
CO5	To understand the basic instruction and branch statements

PO→ CO↓	PO1	PO2	PO3	PO4	PO5
CO1	1	0	1	0	1
CO2	2	0	1	0	0
CO3	0	1	1	1	1
CO4	1	2	0	1	0
CO5	1	0	0	1	1
Average	2.2	2.4	0.6	1.8	1.8

Internal Examination Mark Distribution for each Course outcome

CO	Internal	Seminar	Assignment
CO1	3	1	1
CO2	3	1	1
CO3	3	1	1
CO4	3	1	1
CO5	3	1	1
Total	15	5	5



S.no	Register No	Name	CO1	CO2	CO3	CO4	CO5	Total	PERCENTAGE
1	CB19S 442826	ABRANA.M	4	4	5	5	5	23	92
2	CB19S 442827	BHAKKIYA LAKSHMI K	5	5	4	4	5	23	92
3	CB19S 442828	JEGAN J	4	4	4	4	5	21	84
4	CB19S 442830	KIRUTHIKA K	5	5	5	5	4	24	96
5	CB19S 442831	NOWSHITHA H	4	4	4	4	2	18	72
6	CB19S 442832	RAJADURAI R	4	4	4	4	4	20	80
7	CB19S 442833	RANJITH M	4	4	4	3	3	18	72
8	CB19S 442834	RANJITH KUMAR M	5	5	4	4	4	22	88
9	CB19S 442835	SANJAY S	4	4	4	4	3	19	76
10	CB19S 442836	SANTHIYA DHARSHINI V	4	4	5	5	5	23	92
11	CB19S 442837	SWETHA B	5	5	5	4	5	24	96
Average			4.36	4.36	4.36	4.18	4.09		



Expected Attainment in each CO - 85%

	Internal Exam	External Exam	Total	%
CO				
CO1	4.36	75	79.36	93.36
CO2	4.36	75	79.36	93.36
CO3	4.36	75	79.36	93.36
CO4	4.18	75	79.18	93.15
CO5	4.09	75	79.09	93.05

Course Attainment for B.Sc Physics

Subject Name: Communication Physics

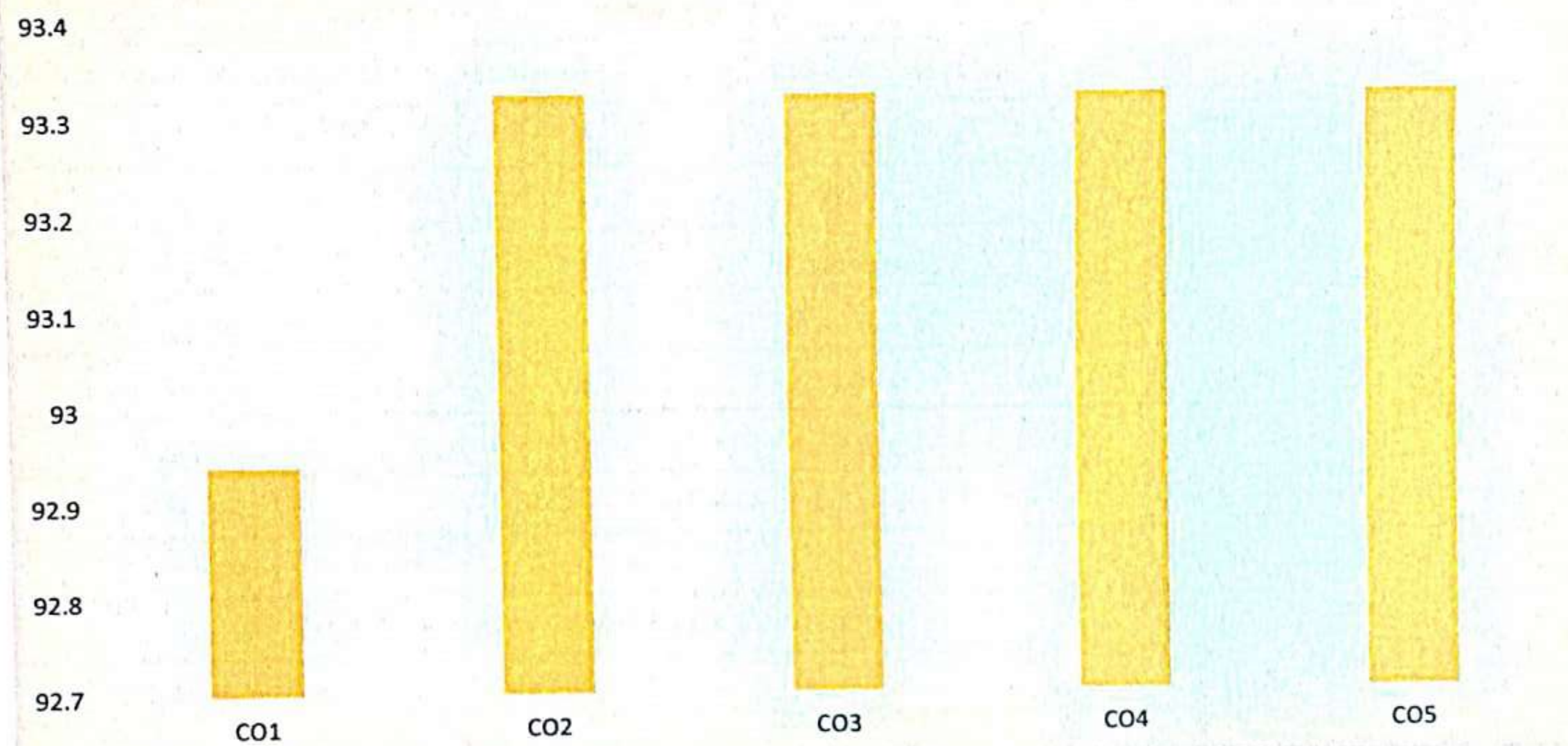
Subject Code: 16SMBEPH3

Number of Students: 11

Course Outcome	Percentage of Attainment
CO1	92.94
CO2	93.33
CO3	93.33
CO4	93.33
CO5	93.33



Course Outcome Attainment



Course Attainment for B.Sc Physics

Subject Name: Communication Physics

Subject Code: 16SMBEPH3

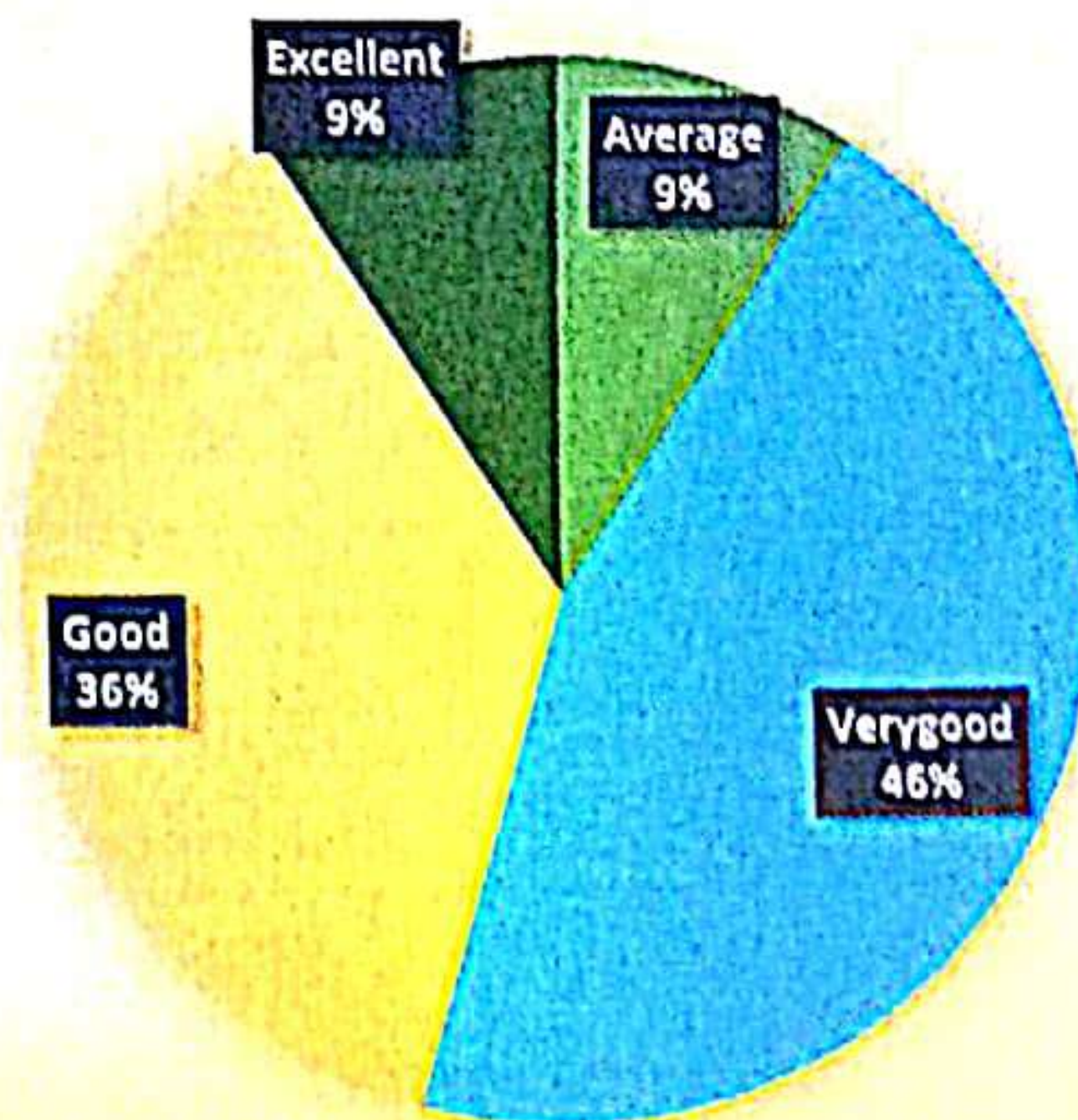
Number of Students: 11

Course Outcome Assessment		
Category (Marks)	Number of Students	Status
90-100	0	Outstanding
80-89	1	Excellent
70-79	0	Distinction
60-69	5	Very Good
50-59	4	Good
40-49	1	Average
0-39	0	Reappear

Course Outcome Assessment Percentage		
Category (Marks)	Percentage	Status
80-89	9.09	Excellent
60-69	45.45	Very Good
50-59	36.36	Good
40-49	9.09	Average



Course Outcome Assessment Percentage



- 80-89
- 60-69
- 50-59
- 40-49

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THANJAVUR - 613 005.



PROGRAM OUTCOME FOR PRACTICAL

PO1	To find this course introduces to the methods of experimental physics.
PO2	An ability will be given on laboratory techniques such as accuracy of measurements & Data analysis.
PO3	To calculate basic experimental apparatus common to the study of physical phenomena.
PO4	To measure the interrelations between theory and observation the role of systematic and random experimental errors and methods used to analyze experimental uncertainty and compare experiment with theory.
PO5	To communicate scientific ideas effectively both orally and in writing.

16SCCPH1P-MAJOR PRACTICAL-I COURSE OUTCOME

CO1	To find the young's modulus of materials.
CO2	To determine the heat capacities of liquids and solids.
CO3	To calculate viscosity and surface tension of liquids from measurements.
CO4	To measure simple electrical and magnetic quantities such as voltage, current, resistance, earth's magnetic field.
CO5	To realize the formation of spectrum with prism and grating.



16SCCPH2P-MAJOR PRACTICAL-II
COURSE OUTCOME

CO1	To analyse the spectral lines using prism.
CO2	To convert the galvanometer into millimetre and millivolt meter and calibrate.
CO3	To determine capacitances and inductances using various bridge circuits.
CO4	To find wavelength of monochromatic light by forming Newton's rings.
CO5	To determine the pH, solubility and density of precursor solutions.

16SCCPH3P-MAJOR PRACTICAL-III
COURSE OUTCOME

CO1	To find the refractive index value.
CO2	To determine the value of M, EMF, Thermistor and Inductance.
CO3	To determine the series and parallel resonance
CO4	To construction and verification Logic gates
CO5	To construction and verification of OP-amp

16SCCPH4P-MAJOR PRACTICAL-IV
COURSE OUTCOME

CO1	To find the Wavelength, Dispersive power and Cauchy's constant
CO2	To determine the value of M and H, voltmeter calibration
CO3	To construction and characteristics amplifier, oscillator
CO4	To write ALP of arithmetic of intel 8085
CO5	To write ALP of Conversion of intel 8085



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