

## AUXILIUM COLLEGE OF ARTS AND SCIENCE FOR WOMEN

( An ISO 9001: 2015 Certified Institution )

Affiliated to Bharathidasan University, Tiruchirappalli -24

Managed by Salesian Sisters, Trichy

Regunathapuram (PO), Karambakudi (TK), Pudukkottai (DT) - 622302.

### ATTAINMENT OF PROGRAM OUTCOMES AND COURSE OUTCOMES

#### COURSE OUTCOME-PROGRAMME OUTCOMES MAPPING

#### FOR DEPARTMENT OF PHYSICS

##### PROGRAM OUTCOME

<b>PO1</b>	To know the historical development of physics, understand the fundamentals and principles of a variety of realm in physics and its possibilities and limitations, understand the value of lifelong learning and the role of physics in society.
<b>PO2</b>	To collect, assess, and make use of the information in both theoretical and experimental physics.
<b>PO3</b>	To apply advanced theoretical and/or experimental methods, including the use of laboratory techniques, numerical methods and computer simulations in various fields and practical situations.
<b>PO4</b>	To model, analyze, and solve advanced problems in physics with mathematical and computer tools.
<b>PO5</b>	To demonstrate the ability to plan and report on a experiment; including the plan, identification of equipment, and execution of experiments, the analysis and interpretation of experimental results, and an assessment of the errors involved

##### COURSE-Mathematical Physics

##### COURSE OUTCOME

<b>CO1</b>	Learn Vector fields, vector identities and Gauss, Stoke's and Green's theorem with applications
<b>CO2</b>	Learn Matrix theory and types of tensors
<b>CO3</b>	Study point groups, space groups and the elementary ideas of rotation groups.
<b>CO4</b>	Learn Complex analysis such as Cauchy's Integral theorem and Cauchy's residue theorem
<b>CO5</b>	Get introduced to Special functions such as gamma and beta functions, recurrence and orthogon

<b>PO→ CO↓</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>P05</b>
<b>CO1</b>	2	2	2	3	0
<b>CO2</b>	2	0	2	2	0
<b>CO3</b>	2	1	3	2	0
<b>CO4</b>	2	0	2	2	0
<b>CO5</b>	2	0	2	1	0
<b>Average</b>	2	0.6	2.2	2	0

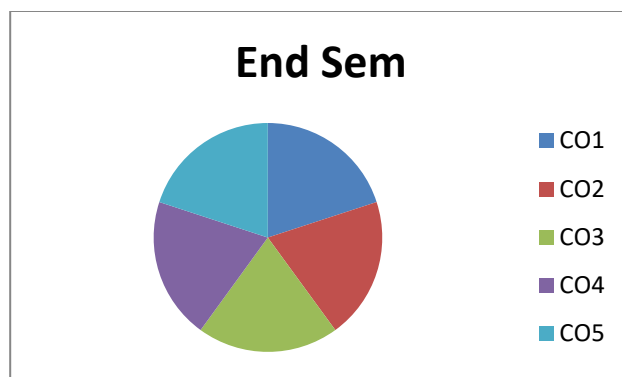
**Internal Examination Mark Distribution for each Course outcome**

<b>CO</b>	<b>Internal</b>	<b>Assignment</b>
<b>CO1</b>	4	1
<b>CO2</b>	4	1
<b>CO3</b>	4	1
<b>CO4</b>	4	1
<b>CO5</b>	4	1
<b>Total</b>	20	5

STUDENT NAME	CO1	CO2	CO3	CO4	CO5	TOTAL	AVERAGE
AKILA. S	5	5	5	5	5	25	100
ANUSHA .P	5	5	5	5	5	25	100
BALASUNDHARI. P	5	5	5	5	5	25	100
BENATIC SHILFA. L	5	5	5	5	5	25	100
BHUVANESWARI. M	5	5	5	5	5	25	100
GAYATHRIS	5	5	5	5	5	25	100
KAMALI.G	5	5	5	5	5	25	100
LENA.J	5	5	5	5	5	25	100
MANJU.B	5	5	5	5	5	25	100
NANCY RANI.T	5	5	5	4	5	24	96
NANDHINI.S	5	5	5	5	5	25	100
PERIYANAYAGI.S	5	5	5	5	5	25	100
PREMA.S	5	5	5	5	5	25	100
PRIYA.S	5	5	5	5	5	25	100
PRIYANGA.M	5	4	4	5	4	22	88
RAJALAKSHMI.R	4	5	5	5	5	24	96
RAMYA.S	5	5	5	5	5	25	100
SIVARANJANI.R	5	5	4	5	5	24	96
SOWMIYA.L	5	5	5	5	5	25	100
SOWMIYA.R	5	5	5	5	5	25	100
SUSHMITHA.C	5	4	4	4	5	22	88
THANGALAKSHMI.R	5	5	5	5	5	25	100
THIVAH.R	5	5	5	5	5	25	100
VINO CHRISTICA.A	5	5	5	5	5	25	100
VINOTHIKA.S	3	4	4	5	4	20	80
RAJESHWARI. R	4	4	3	5	4	20	80
Average	4.85	4.85	4.77	4.92	4.88		

Expected Attainment in each CO - 85%

CO	Int. Exam + Assignment	End Sem	Total	%
CO1	4.85	75	79.85	93.9
CO2	4.85	75	79.85	93.9
CO3	4.78	75	79.78	93.9
CO4	4.93	75	79.93	94.0
CO5	4.89	75	79.89	94.0



## COURSE - CLASSICAL DYNAMICS AND RELATIVITY

### COURSE OUTCOME

<b>CO6</b>	Get introduced to Lagrangian formulation and mechanics and its applications.
<b>CO7</b>	Learn about the motion of system of particles in central force field.
<b>CO8</b>	Understand the dynamics of rigid body and ideas regarding Euler's equations of motion & Learn the theory of small oscillatory motion.
<b>CO9</b>	Learn Hamiltonian mechanics for a particle and system of particles and its applications.
<b>CO10</b>	Know about relativistic mechanics.

<b>PO→ CO↓</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO6</b>	3	2	1	2	1
<b>CO7</b>	3	2	2	2	2
<b>CO8</b>	3	2	1	2	2
<b>CO9</b>	3	2	2	2	1
<b>CO10</b>	3	1	2	2	2
<b>Average</b>	3	1.8	1.8	2	1.6

**Internal Examination Mark Distribution for each Course outcome**

CO	Internal	Assignment
CO6	4	1
CO7	4	1
CO8	4	1
CO9	4	1
CO10	4	1
<b>Total</b>	20	5

STUDENT NAME	CO6	CO7	CO8	CO9	CO10	TOTAL	AVERAGE
AKILA.S	5	5	5	5	5	25	100
ANUSHA .P	5	5	5	4	5	24	96
BALASUNDHARI. P	5	5	5	5	5	25	100
BENATIC SHILFA. L	5	5	5	5	5	25	100
BHUVANESWARI. M	5	5	5	5	5	25	100
GAYATHRI.S	5	5	5	5	5	25	100
KAMALI.G	5	5	5	5	5	25	100
LENA.J	5	5	5	4	5	24	96
MANJU.B	5	5	5	5	5	25	100
NANCY RANI.T	5	5	5	4	5	24	96
NANDHINI.S	5	5	5	5	5	25	100
PERIYANAYAGI.S	5	5	5	5	5	25	100
PREMA.S	5	5	5	5	5	25	100
PRIYA.S	5	5	5	5	5	25	100
PRIYANGA.M	4	5	4	5	5	23	92
RAJALAKSHMI.R	5	5	5	4	5	24	96
RAMYA.S	5	5	5	5	5	25	100
SIVARANJANI.R	3	5	4	4	4	20	80
SOWMIYA.L	5	5	4	4	5	23	92
SOWMIYA.R	5	5	5	4	5	24	96
SUSHMITHA.C	5	4	4	4	5	22	88
THANGALAKSHMI.R	5	5	5	5	4	24	96
THIVAH.R	5	5	5	5	5	25	100
VINO CHRISTICA.A	5	5	5	5	5	25	100
VINOTHIKA.S	3	4	4	5	4	20	80
RAJESHWARI. R	4	4	3	5	4	20	80
<b>Average</b>	4.8	4.9	4.7	4.7	4.8		

Expected Attainment in each CO - 85%

CO	Int. Exam + Assignment	End Sem	Total	%
CO6	4.8	75	79.8	93.9
CO7	4.9	75	79.9	94.0
CO8	4.7	75	79.7	93.8
CO9	4.7	75	79.7	93.8
CO10	4.7	75	79.7	93.8

