

**B.L.D.E.ASSOCIATION'S**  
**SB ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR**  
**RE-ACCREDITED AT THE 'B<sup>++</sup>' LEVEL**  
**Bachelor of Science**

**Department of Physics and Electronics**

**MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES**

**2022-2023**

**SEM: I (NEP)**

**PAPER: Mechanics and properties of matter (DSC)**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	-	2	3	-	-	3-	3
<b>CO2</b>	3	3	3	3	2	-	2	-	-	3
<b>CO3</b>	3	-	3	3	-	-	2	-	-	2
<b>CO4</b>	3	-	3	2	-	-	2	-	-	3
<b>CO5</b>	3	-	3	2	-	-	2	-	-	3
<b>CO6</b>	3	-	3	-	3	-	2	-	-	3
<b>CO7</b>	3	2	3	3	3	2	3	3	-	3
<b>CO8</b>	3	2	3	2	-	2	2	-	-	2
<b>CO9</b>	3	2	3	2	2	2	2	3	3	2

**SEM: I (NEP)**

**PAPER: Theory based Practical's on Mechanics and properties of matter**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	2	3	2	-	2	3	-	2	3
<b>CO2</b>	3	-	3	3	2	2	3	-	-	3
<b>CO3</b>	3	-	3	3	2	3	3	-	-	3
<b>CO4</b>	3	3	3	-	2	3	3	2	2	3
<b>CO5</b>	3	3	3	2	-	2	2	3	-	3

**SEM: I (NEP)**

**PAPER: Energy Sources (OEC)**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2	3	-	-	3	-	2	3
CO2	2	-	3	2	3	2	-	-	-	2
CO3	3	-	2	3	2	3	2	-	-	3
CO4	3	2	3	-	3	2	3	3	2	3
CO5	2	3	2	3	-	3	2	3	2	2
CO6	3	3	2	2	3	3	-	-	3	3

**SEM: II (NEP DSC)**

**PAPER: Electricity & Magnetism**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2	3	3	3	3	2	2	-
CO2	3	2	2	2	2	3	3	3	-	-
CO3	3	2	2	3	2	2	3	2	-	-
CO4	3	-	-	2	2	3	3	3	2	3
CO5	3	-	-	2	3	3	3	2	-	2
CO6	3	-	-	3	2	2	3	3	3	3
CO7	3	2	3	3	3	2	2	2	3	2

**SEM: II (NEP DSC)**

**PAPER: Theory based Practical's on Electricity & Magnetism**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	2	2	3	3	-	2	2
CO2	3	2	-	3	3	2	3	-	3	3
CO3	3	3	-	2	2	2	3	2	2	-
CO4	3	2	-	3	3	2	3	3	-	-
CO5	3	3	2	-	2	2	3	2	-	-
CO6	3	2	3	-	3	2	3	3	3	3

**SEM: II (NEP OEC)****PAPER: Optical Instruments**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	-	3	2	-	2	2	-	3
CO2	3	2	2	2	2	-	3	2	-	2
CO3	3	3	3	3	3	-	3	2	-	3
CO4	3	2	-	2	2	2	3	2	3	2
CO5	3	3	-	-	3	3	3	2	3	3

**SEM: III (NEP DSC)****PAPER: Wavemotion and Optics**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	-	2	-	2	-	3	2
CO2	3	3	2	-	3	-	3	-	2	3
CO3	3	2	3	-	2	-	2	-	3	2
CO4	3	3	2	3	3	3	3	2	2	3
CO5	3	2	3	3	2	3	2	3	3	2

**SEM: III (NEP DSC)****PAPER: Theory based Practical's On Wavemotion and Optics**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	-	2	-	2	-	3	2
CO2	3	3	2	-	3	-	3	-	2	3
CO3	3	2	3	-	2	-	2	-	3	2
CO4	3	3	2	3	3	3	3	2	2	3
CO5	3	2	3	3	2	3	2	3	3	2

**SEM: III (NEP OEC)****PAPER: Climate Science**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	-	3	2	-	2	2	-	3
CO2	3	2	2	2	2	-	3	2	-	2
CO3	3	3	3	3	3	-	3	2	-	3
CO4	3	2	-	2	2	2	3	2	3	2
CO5	3	3	-	-	3	3	3	2	3	3

**SEM: IV (NEP DSC)****PAPER: Thermal physics and Electronics**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	2	2	3	3	-	2	2
CO2	3	2	-	3	3	2	3	-	3	3
CO3	3	3	-	2	2	2	3	2	2	-
CO4	3	2	-	3	3	2	3	3	-	-
CO5	3	3	2	-	2	2	3	2	-	-
CO6	3	2	3	-	3	2	3	3	3	3

**SEM: IV (NEP DSC)****PAPER: Theory based Practical's On Thermal physics and Electronics**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	-	3	2	-	2	2	-	3
CO2	3	2	2	2	2	-	3	2	-	2
CO3	3	3	3	3	3	-	3	2	-	3
CO4	3	2	-	2	2	2	3	2	3	2
CO5	3	3	-	-	3	3	3	2	3	3

**SEM: V (CBCS)****PAPER: Paper I- Mathematical Physics 1, Nuclear and particle Physics and classical mechanics.**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	-	3	3	2	-	-	3	-	3
CO2	3	-	3	3	3	-	-	3	-	3
CO3	3	-	3	3	2	-	-	-	-	3
CO4	3	-	3	3	3	-	-	3	-	3
CO5	3	-	3	3	3	-	-	3	-	3
CO6	3	-	3	3	-	-	-	-	-	3

**SEM: V (CBCS)**  
**PAPER:** Theory based practicals on Mathematical Physics 1, Nuclear and particle Physics and classical mechanics.

classical mechanics.										
Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	2	3	3	-	3
CO2	3	2	3	3	3	1	3	3	-	3
CO3	3	2	3	3	3	2	3	3	-	3
CO4	3	3	3	3	3	1	3	3	-	3
CO5	3	3	3	3	3	1	3	3	-	3
CO6	3	3	3	3	3	2	3	3	-	3

**SEM: V (CBCS)**  
**PAPER: Paper II Quantum Mechanics-I, Electronics and optoelectronics**  
**Program Outcomes**

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	-	3	3	2	-	-	3	-	3
CO2	3	-	3	3	3	-	-	3	-	3
CO3	3	-	3	3	2	-	-	-	-	3
CO4	3	-	3	3	3	-	-	3	-	3
CO5	3	-	3	3	3	-	-	3	-	3
CO6	3	-	3	3	-	-	-	-	-	3

**SEM: V (CBCS)**  
**PAPER: Theory based practicals on Quantum Mechanics-I, Electronics and optoelectronics**

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**SEM: VI (CBCS)**

**PAPER: Paper I** Mathematical Physics-II, Atomic Molecular and Optical Physics and Atmospheric Physics

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	-	3	3	3	-	-	3	-	3
CO2	3	-	3	3	3	-	-	3	-	3
CO3	3	-	3	3	3	-	-	2	-	3
CO4	3	-	3	3	3	-	-	-	-	3
CO5	3	-	3	3	3	-	-	-	-	3
CO6	3	-	3	3	3	-	-	2	-	3

**SEM: VI (CBCS)**

**PAPER: Theory based practicals on** Mathematical Physics-II, Atomic Molecular and Optical Physics and Atmospheric Physics

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	3	3	3	1	3	3	-	3
CO2	3	2	3	3	3	2	3	3	-	3
CO3	3	1	3	3	3	3	3	3	-	3
CO4	3	2	3	3	3	3	3	3	-	3
CO5	3	3	3	3	3	2	3	3	-	3

**SEM: VI (CBCS)**

**PAPER: Paper II** Quantum Mechanics-II, Condensed Matter Physics-I and nanomaterials

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	-	3	3	3	1	-	-	-	3
CO2	3	-	3	3	3	2	-	-	-	3
CO3	3	-	3	3	3	2	3	3	-	3
CO4	3	-	3	3	3	3	3	3	-	3
CO5	3	-	3	3	3	2	3	3	-	3

**SEM: VI (CBCS)**

**PAPER:** Theory based practicals on Quantum Mechanics-II, Condensed Matter Physics-I and nanomaterial

Course Outcomes	Program Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	-	3	3	3	1	3	3	-	3
CO2	3	-	3	3	3	2	3	2	-	3
CO3	3	-	3	3	3	2	3	3	-	3
CO4	3	-	3	3	3	3	3	2	-	3
CO5	3	-	3	3	3	3	3	2	-	3



**HOD  
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