ODD SEM-2022-23



C.L.

SIRA ROAD, TUMKUR- 572 106.

Department of Physics

Course Outcomes and COs-POs Mapping

Batch 2022-23

Semester – I

Subjec	: Applied Physics for CSE Stream	Subject Code: BPHYS102
	Course Outcomes	j == 00 00 B11110102
CO1	Describe the principles of LASERS and Ontical fibers	and their male it is
CO2	Discuss the basic principles of the Quantum Mechani Computing.	cs and its application in Quantum
CO3	Summarize the essential properties of superconduct. Computing.	ors and applications in Quantum
CO4	Illustrate the application of physics in design and data	analysis
CO5	Practice working in groups to conduct experiments in honest measurements.	physics and perform precise and

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and RO2 P. 11

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

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CO2	72.14	2.16	2.16		*								1.44
CO3	73.79	2.21	2.21										1.47
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Inverse 1 1 1 1 <td>15V22C5034</td> <td></td> <td></td> <td>A</td> <td>12</td> <td>2 10</td> <td>2</td> <td>2 20</td> <td>0 20</td> <td>20</td> <td>20</td> <td>17</td> <td>97</td> <td>20</td> <td>2.</td> <td>5 2.5</td> <td>2.5</td> <td>2.5</td> <td>4.75</td> <td>4.75</td> <td>4.75</td> <td>4.75</td> <td>37.25</td> <td>47.25</td> <td>39.25</td> <td>24.25</td> <td>20</td> <td>49.666667</td> <td>63</td> <td>71.36364</td> <td>69.28571</td> <td>100</td>	15V22C5034			A	12	2 10	2	2 20	0 20	20	20	17	97	20	2.	5 2.5	2.5	2.5	4.75	4.75	4.75	4.75	37.25	47.25	39.25	24.25	20	49.666667	63	71.36364	69.28571	100
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jvx2cos44 20 19 99 20 <	15V22C5043	1	19 19	3	8 1	2 19	3	1 2	0 1	8 2	0 20	19	97	19	2.	5 2.5	2.5	2.5	11	11	11 25	11 25	71.5	70.5	45.5	32.5	19	95.333333	94	82.72727	92.85/14	95
ISV22G945 0	15V22C5044	1	20 19	3	9 2	20	4	0 2	0 20	0 2	0 16	20	96	20	2.	5 2.5	2.5	2.5	0.25	0.25	0.25	9.25	12.75	51 75	49.75	33./5	19	58 333333	98.33333	70 45455	50 71429	95
15V22C5046 7 8 13 7 7 8 13 7 7 8 13 20 13 25 15 55 <th< td=""><td>15V22C5045</td><td>-</td><td>0 0</td><td></td><td>0</td><td>7 13</td><td>2</td><td>10 1</td><td>9 20</td><td></td><td>6 20</td><td>12</td><td>85</td><td>19</td><td>2.</td><td>5 2.5</td><td>2.5</td><td>2.5</td><td>5.25</td><td>6.5</td><td>6.5</td><td>6.5</td><td>32</td><td>34</td><td>36</td><td>21</td><td>15</td><td>42.666667</td><td>45.33333</td><td>65.45455</td><td>60</td><td>75</td></th<>	15V22C5045	-	0 0		0	7 13	2	10 1	9 20		6 20	12	85	19	2.	5 2.5	2.5	2.5	5.25	6.5	6.5	6.5	32	34	36	21	15	42.666667	45.33333	65.45455	60	75
JSV22C6047 9 8 11 12 13	15V22C5046	-	7 8	1	5	7 7	1	4	8 1		0 20	12	89	18	2.	5 2.5	2.5	2.5	9.5	9.5	9.5	9.5	51	60	44	24	18	68	80	80	68.57143	90
13/12/2005 10 10 10 10 10 10 10 11/2 <td>15V22C5047</td> <td>-</td> <td>9 8</td> <td>1</td> <td></td> <td>2 7</td> <td>1</td> <td>9 1</td> <td>8 1</td> <td>8 2</td> <td>0 20</td> <td>11</td> <td>87</td> <td>7 20</td> <td>2.</td> <td>.5 2.5</td> <td>2.5</td> <td>2.5</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>53.5</td> <td>60.5</td> <td>42.5</td> <td>21.5</td> <td>20</td> <td>71.333333</td> <td>80.66667</td> <td>77.27273</td> <td>61.42857</td> <td>100</td>	15V22C5047	-	9 8	1		2 7	1	9 1	8 1	8 2	0 20	11	87	7 20	2.	.5 2.5	2.5	2.5	8	8	8	8	53.5	60.5	42.5	21.5	20	71.333333	80.66667	77.27273	61.42857	100
Sive2cess 20 40 16 5 21 20 16 18 20 0 74 20 2.5 2.5 2.5 2.5 2.5 9.5	15/2205048	-	20 20	4	0 2	0 20	4	10 2	0 2	0 2	0 20	20	100	20	2.	.5 2.5	2.5	2.5	11.75	11.75	11.75	11.75	74.25	74.25	54.25	34.25	20	99	99	98.63636	97.85714	100
ISV22C051 19 20 39 20 20 40 20	15V22C5050		20 20	4	0 1	6 5	2	21 2	0 1	6 1	8 20	0 0	74	20	2.	.5 2.5	2.5	2.5	4.5	4.5	4.5	4.5	52	61	43	7	20	69.333333	81.33333	78.18182	20	100
ISSU22052 I6 I9 35 I2 I6 28 92 17 74 19 2.5 2.5 2.5 2.5 2.5 2.5 3.5 3.5 3.5 1.7 13 16 16 17.8 18 2.5 2.5 2.5 2.5 5.25	15V22CS051		19 20	3	9 2	0 20	4	10 2	0 2	0 2	0 20	20	100	20	2.	.5 2.5	2.5	2.5	9.5	9.5	9.5	9.5	72	71	52	32	20	96	94.66667	94.54545	91.42857	100
ISV22CS05 12 13 25 8 9 17 7 8 8 10 6 39 18 2.5 2.5 2.5 3.2.5 3.2.5 3.2.73 2.5.75 2.5	15V22C5052		16 19	3	5 1	2 16	2	28 1	2 1	8 2	0 17	7	74	4 19	2.	5 2.5	2.5	2.5	8	5.25	8	5 35	57.5	64.5	39.5	17.5	19	/0.000067	47 66667	46 81919	39 28571	95
ISV22CS054 17 20 37 20	1SV22CS053		12 13	2	5	8 9	1	17	/	8	8 10	1 20	39	18	2.	5 2.5	2.5	2.5	10.75	10.75	10.75	10.75	73.25	70.25	53.25	33,25	19	97.666667	93.66667	96.81818	95	95
Libra Libra <thlibra< th=""> <thlibra< th=""> <thli< td=""><td>15V22CS054</td><td></td><td>17 20</td><td>3</td><td>2</td><td>20</td><td>4</td><td>25 2</td><td>0 1</td><td>6 1</td><td>9 20</td><td>1 13</td><td>87</td><td>7 20</td><td>2</td><td>.5 2.5</td><td>2.5</td><td>2.5</td><td>10</td><td>10</td><td>10</td><td>10</td><td>63.5</td><td>64.5</td><td>45.5</td><td>24.5</td><td>20</td><td>84.666667</td><td>86</td><td>82.72727</td><td>70</td><td>100</td></thli<></thlibra<></thlibra<>	15V22CS054		17 20	3	2	20	4	25 2	0 1	6 1	9 20	1 13	87	7 20	2	.5 2.5	2.5	2.5	10	10	10	10	63.5	64.5	45.5	24.5	20	84.666667	86	82.72727	70	100
13x22c505 12	15V22C5055	-	16 4	3		0 4	2	24 2	0 2	0 2	0 20		7 87	7 20	2	.5 2.5	2.5	2.5	8	8	8	8	38.5	66.5	50.5	17.5	20	51.333333	88.66667	91.81818	50	100
Introduction Image: Constraint of the constr	15/2205056		40 4	1 4	1	2 0	1	12 1	0	0 1	5 20	18	63	3 18	2.	.5 2.5	2.5	2.5	2.5	2.5	2.5	2.5	15	20	37	23	18	20	26.66667	67.27273	65.71429	90
ISV22CS059 20 20 40 16 19 35 20	15V22C5058		20 20	4	0 2	0 20	4	40 2	0 2	0 1	7 20	20	97	7 20	2.	.5 2.5	2.5	2.5	11.25	. 11.25	11.25	11.25	73.75	70.75	53.75	33.75	20	98.333333	94.33333	97.72727	96.42857	100
ISV22CS061 8 14 22 12 1 13 20 13 11 16 20 80 19 2.5 4.5	15V22C5059		20 20	4	0 1	6 19	3	35 2	20 2	0 2	0 20	20	100	0 20	2	.5 2.5	2.5	2.5	9	9	. 9	9	70.5	71.5	47.5	31.5	20	94	95.33333	86.36364	90	100
INV2CS062 16 8 24 12 20 32 5 0 0 0 5 17 2.5 2.5 2.5 4.5 <t< td=""><td>15V22C5061</td><td></td><td>8 14</td><td>2</td><td>2 1</td><td>2 1</td><td>1</td><td>13 2</td><td>0 1</td><td>3 1</td><td>1 16</td><td>5 20</td><td>80</td><td>0 19</td><td>2</td><td>.5 2.5</td><td>2.5</td><td>2.5</td><td>8.5</td><td>8.5</td><td>8.5</td><td>8.5</td><td>46</td><td>43</td><td>39</td><td>31</td><td>19</td><td>61.333333</td><td>30 66667</td><td>34 54545</td><td>88.5/143</td><td>95</td></t<>	15V22C5061		8 14	2	2 1	2 1	1	13 2	0 1	3 1	1 16	5 20	80	0 19	2	.5 2.5	2.5	2.5	8.5	8.5	8.5	8.5	46	43	39	31	19	61.333333	30 66667	34 54545	88.5/143	95
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15V22C5064 5 20 23 10 13 23 20	15V22C5063		13 12	2	1 1	3 4	1	17 2		8 2	0 20	20	98	20	2	5 2.5	2.5	2.5	10.25	10.25	10.25	10.25	65.75	57.75	42.75	32.75	20	87.666667	77	77.72727	93.57143	100
15/22/5065 13 20 35 20 21 13 17 15 87 20	15V22C5064	•	5 20	2		4 15	2	23 2	20 2	0 2	0 20	20	100	20	2	.5 2.5	2.5	2.5	7.75	7.75	7.75	7.75	65.25	63.25	44.25	30.25	20	87	84.33333	80.45455	86.42857	100
Investigation Image: Second Secon	15/2205065	-	13 20	3	12 1	3 17		30 7	20 1	7 1	8 17	1 1	5 8	7 20	2	.5 2.5	2.5	2.5	. 9	9	9	9	68.5	58.5	41.5	26.5	20	91.333333	78	75.45455	75.71429	100
Isv22c5068 16 20 36 20 13 33 20 20 20 20 20 100 19 2.5 2.5 2.5 9.75 9.75 9.75 9.75 9.75 9.75 62.25 32.25 19 87 9.99 9.142850 95 Isv22c5069 12 20 32 19 15 34 20 17 15 18 14 92 2.5 2.5 2.5 9.5 9.5 9.5 69.25 69.25 62.8 9.993 7.428571 100 Isv22c5007 17 20 32 20 20 20 20 20 20 2.5 2.5 2.5 9.75 9.75 9.75 69.25 69.25 44.25 32.25 20 9.233333 7.428571 100 Isv22c5070 17 7 20 20 20 20 20 20 20 2.5 2.5 2.5 9.75	15/2205067		15 20		15 2	0 8	1 2	28 2	20 2	0 2	0 20	20	0 100	0 20	2	.5 2.5	2.5	2.5	10.25	10.25	10.25	10.25	60.75	67.75	52.75	32.75	20	81	90.33333	95.90909	93.57143	100
ISV22CS069 12 20 32 19 15 34 20 17 15 18 14 84 20 2.5 2.5 2.5 9.5 9.5 9.5 67 56 49 26 20 833333 74.6667 89.03901 74.28571 100 ISV22CS070 17 20 37 12 17 29 20 20 20 20 2.5 2.5 2.5 9.5 9.75 9.75 69.25 64.25 32.25 20 20.23333 74.6667 80.9091 74.28571 100 ISV22CS071 17 20 37 12 17 29 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 21.428671 100 ISV22CS071 0 18 16 7 7 7 7 7 7 7 7 7 7 7 9.5 2.5 2.5 2.5 2.5 2.5 2.5 2	15V22C5068		16 20) 3	36 2	0 13	1	33 2	20 2	20 2	0 20	20	0 100	0 19	2	.5 2.5	2.5	2.5	9.75	9.75	9.75	9.75	65.25	68.25	52.25	32.25	19	87	91	95	92.14286	95
ISV22CS070 17 20 37 12 17 29 20 20 20 100 20 2.5 2.5 2.5 9.75 9.75 9.75 69.25 69.25 64.25 32.25 20 92.33333 20.2455 92.33333 20.2455 92.3455 92.14285 100 20 2.5 2.5 2.5 9.75 9.75 9.75 69.25 69.25 64.25 32.25 20 92.33333 20.24555 92.3455 92.3455 92.3455 92.3455 92.3455 92.3455 92.3455 92.3455 92.3455 92.3455 92.3455 92.3455 92.34555 92.3455	15V22C5069		12 20) 3	32 1	.9 .15	1	34 2	20 1	17 1	5 18	B 14	4 84	4 20	2	.5 2.5	2.5	2.5	9.5	9.5	9.5	9.5	67	56	49	26	20	89.333333	74.66667	89.09091	74.28571	100
15V2C2G071 0 18 18 1 6 7 1/ 1/ 0 7 0 44 19 2.3 2.5 2.5 2.5 2.5 2.5 13 5 5 10 17.33333 6.66667 9.999999 14.28571 50	15V22CS070		17 20		37 1	2 17	1 3	29 2	20 2	20 2	0 20	20	100	20	2	.5 2.5	2.5	2.5	9.75	9.75	9.75	9.75	09.25	09.25	44.25	32.25	19	52.535333	32.33333	27.27273	20	100
	15V22CS071	-	0 18	3 1	18	1 6	-	1 1	1/ 1	/	-	1	4. A	10	2	.5 2.5	2.5	2.5	2.5	2.5	2.5	2.5	13	5	5	5	10	17.333333	6.666667	9.090909	14.28571	50

A CALL				-				-		-			10	2.0	25	2.5	1 25	0.75	9.75	9.75	8 25	41 75	41 75	25 75	28 75	18 55 666667	55 66667	46 81818	82 14286	90	(· · · · · · · · · · · · · · · · · · ·
1SV22CS073	8	13	2	1 7	8	15	10	5	18	8	18	59	18	2.5	2.5	2.5	2.5	0.25	0.25	0.25	0.25	67.75	50.75	50.75	21.75	20 00 222222	70 66667	02 27272	00 714200	100	
1SV22CS074	12	20	3	2 19	16	35	20	16	20	20	20	96	20	2.5	2.5	2.5	2.5	9.25	9.25	9.25	9.23	67.73	59.75	30.75	31.75	20 50.3333333	79.66667	SE AEAEE	69 571423	100	
1SV22CS075	8	6 6	1	4 8	9	17	19	17	19	19	15	89	20	2.5	2.5	2.5	2.5	6.5	6.5	6.5	0.5	43	53	40.75	24	20 57.555555	70.00007	03.43433	00.3/143	100	
15V22CS076	11	1 20	3	1 20	17	37	18	17	19	18	20	92	19	2.5	2.5	2.5	2.5	8.25	8.25	8.25	8.25	65.75	57.75	48.75	30.75	19 87.000007	11	88.03030	07.05/14	95	
15V22CS077	3	8 8	1	1 8	8	16	6	6	18	8	0	38	14	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	28	33	40.5	22.5	14 37.333333	44	40	17.14200	70	
1SV22CS078	17	7 20) 3	37 19	18	37	20	20	20	18	20	98	19	2.5	2.5	2.5	2.5	10	10	10	10	70.5	69.5	49.5	32.5	19 94	92.66667	90	92.85/14	95	
15V22C5079	20	18	3 3	38 17	20	37	20	20	20	20	20	100	20	2.5	2.5	2.5	2.5	12.25	12.25	12.25	12.25	12.75	14.75	51.75	34.75	20 97	99.66667	94.09091	99.285/1	100	
15V22C5080	. 3	3 12	2 1	15 13	11	24	13	11	17	20	19	80	19	2.5	2.5	2.5	2.5	8.5	8.5	8.5	8.5	. 4/	42	44	30	19 62.666667	56	80	85./1429	95	
15V22C5081	16	5 16	5 3	32 10	17	27	20	13	20	20	19	92	20	2.5	2.5	2.5	5 2.5	8.75	8.75	8.75	8.75	64.25	60.25	41.25	30.25	20 85.666667	80.33333	/5	86.42857	100	
15V22CS082	4	4 17	7 2	21 . 6	17	23	20	19	18	20	20	97	20	2.5	2.5	2.5	5 2.5	8	8	8	8	64.5	51.5	36.5	30.5	20 86	68.66667	66.36364	87.14286	100	
15V22CS083	12	2 20) :	32 1	13	24	19	17	20	18	20	94	20	2.5	2.5	2.5	5 2.5	7.5	7.5	7.5	7.5	62	59	39	30	20 82.666667	/8.6666/	70.90909	85./1429	100	
15V22C5084	8	8 14	4	22 12	9	21	9	10	6	18	14	57	19	2.5	2.5	2.5	5 2.5	6.75	6.75	6.75	6.75	41.25	33.25	39.25	23.25	19 55	44.33333	71.36364	66.42857	95	
15V22C5085	7	7 1	7	24	13	20	19	16	15	20	19	89	20	2.5	2.5	2.5	5 2.5	9	9	9	9	60.5	49.5	38.5	30.5	20 80.666667	66	70	87.14286	100	
15V22CS086	20	0 20	0	40 1	20	39	20	20	20	20	20	100	20	2.5	2.5	2.5	5 2.5	11.25	11.25	11.25	11.25	73.75	73.75	52.75	33.75	20 98.333333	98.33333	95.90909	96.42857	100	
15V22C5087	8	8 1	8	26 1	19	34	1 15	4	5	18	15	57	19	2.5	2.5	2.5	5 2.5	9.5	9.5	9.5	9.5	64	29	45	27	19 85.333333	38.66667	81.81818	77.14286	95	
15V22C5088		5 (6	11 1	10	20	20	20	20	5	5	70	19	2.5	2.5	2.5	5 2.5	8.5	8.5	8.5	8.5	47	56	26	16	19 62.666667	74.66667	47.27273	45.71429	95	
15V22C5089	-	7 1	7	24	5 13	19	12	14	10	20	12	68	20	2.5	2.5	2.5	5 2.5	4.5	4.5	4.5	4.5	49	38	33	19	20 65.333333	50.66667	60	54.28571	100	
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15/2205090	-	2 1	5	17 1	17	3	5 20	17	17	20	20	94	20	2.5	2.5	2.5	5 2.5	7.25	7.25	7.25	7.25	61.75	45.75	48.75	29.75	20 82.333333	61	88.63636	85	100	
15/2205091	1	2 2	0	32 2	17	3	7 18	20	20	19	17	94	20	2.5	2.5	2.	5 2.5	10.75	10.75	10.75	10.75	68.25	65.25	52.25	30.25	20 91	87	95	86.42857	100	
15/2205092	-	4 1	5	19 1	15	2	B			1.1.1		A	19	2.5	2.5	2.	5 2.5	7.25	7.25	7.25	7.25	39.75	13.75	22.75	9.75	19 53	18.33333	41.36364	27.85714	95	
15/2205095		6 1	0	16	R 15	2	3 19	10	20	17	10	76	19	2.5	2.5	2.	5 2.5	4.5	4.5	4.5	4.5	51	43	32	17	19 68	57.33333	58.18182	48.57143	95	
15/22C3094	1	0 1	3	32 1	15	2	5 19	20	20	20	20	99	20	2.5	2.5	2.	5 2.5	9.25	9.25	9.25	9.25	58.75	70.75	41.75	31.75	20 78.333333	94.33333	75.90909	90.71429	100	
1502205095	-	4 1	2	16 1	3 9	2	1 11		20	7	13	46	19	2.5	2.5	2.	5 2.5	5.5	5.5	5.5	5.5	40	37	28	21	19 53.333333	49.33333	50.90909	60	95	
1502205096		2 2	2	22 1	17	2	7 18	15	20	19	20	95	20	2.5	2.5	2.	5 2.5	6.25	6.25	6.25	6.25	63.75	49.75	37.75	28.75	20 85	66.33333	68.63636	82.14286	100	-
15V22C5097	1 1	3 2	0	26 7	17	3	7 10	15	20	20	20	97	20	2.5	2.5	2.	5 2.5	10.25	10.25	10.25	10.25	67.75	67.75	52.75	32.75	20 90.333333	90.33333	95.90909	93.57143	100	
15V22C5098			0	16 1	1 12	2	3 20	20	20	5	5	80	18	2.5	2.5	2.	5 2.5	2.75	2.75	2.75	2.75	47.25	50.25	21.25	10.25	18 63	67	38.63636	29.28571	90	
15V22C5099		2 1	2	26 1	1 12	2	5			-	-	A	20	2.5	2.5	2.	5 2.5	5.75	5.75	5.75	5.75	33.25	22.25	20.25	8.25	20 44.333333	29.66667	36.81818	23.57143	100	
15V22CS100	1		2	20 1	0 17	2	5 10	15	2 20	18	20	95	20	2.5	2.5	2.	5 2.5	8.25	8.25	8.25	8.25	64.75	58.75	46.75	30.75	20 86.333333	78.33333	85	87.85714	100	
15V22C5101	1		8	20 1	0 20	3	0 10	10	20	20	20	98	20	2.5	.2.5	2.	5 2.5	11	11	11	11	72.5	64.5	53.5	33.5	20 96.666667	86	97.27273	95.71429	100	
15V22C5102	1	12 2	20	32 2	2 20		2 20	20	20	20	20	100	20	2.5	2.5	2.	5 2.5	9	9	9	9	71.5	63.5	43.5	31.5	20 95.333333	84.66667	79.09091	90	100	
1SV22CS103	1	12 2	20	32 1	2 20	3	2 20	10	20	20	20	99	20	2.5	2.5	2.	5 2.5	11	11	11	11	73.5	72.5	53.5	33.5	20 98	96.66667	97.27273	95.71429	100	
15V22C5104	2	20 2	20	40 4	20	4	1 10	1	17	20	17	89	20	2.5	2.5	2.	5 2.5	9	9	9	9	62.5	62.5	45.5	28.5	20 83.333333	83.33333	82.72727	81.42857	100	
1SV22CS105	1	18	15	33 1	4 1/	. 3	7	. 10		20	1	A	18	2.5	2.5	2.	5 2.5	. 4.5	4.5	4.5	4.5	28	7	11	7	18 37.333333	9.333333	20	20	90	
15V22CS106	-	0	18	18	4 3		1 1	2	20	20	20	99	20	2.5	2.5	2.	5 2.5	9.5	9.5	9.5	9.5	70	70	51	32	20 93.333333	93.33333	92.72727	91.42857	100	
1SV22CS107	1	18	19	3/ 1	9 20	3	9 1	20	7 10	20	20	94	20	25	2.5	2.	5 2.5	10	10	10	10	69.5	67.5	52.5	32.5	20 92.666667	90	95.45455	92.85714	100	
1SV22CS108	2	20	18	38 4	0 20	.4		7 1	7 20	20	15	80	20	25	2.5	2	5 2.5	8.25	8.25	8.25	8.25	46.75	56.75	41.75	25.75	20 62.333333	75.66667	75.90909	73.57143	100	
15V22CS109		9 .	8	1/ .	1 11		2 1	2 2	1 17	20	20	97	20	25	25	2	5 2.5	8	8	8	8	61.5	61.5	40.5	30.5	20 82	82	73.63636	87.14286	100	1997
1SV22CS110	1	14 1	16	30	0 15		5 2			20	120	70	19	2.5	25	2	5 2.5	7	7	7	7	60.5	42.5	26.5	21.5	19 80.666667	56.66667	48.18182	61.42857	95	
15V22C5111	-	5 3	16	21	6 16		2 1			11	1 0	52	19	25	25	2	5 2.5	6.5	6.5	6.5	6.5	40	40	26	9	19 53.333333	53.33333	47.27273	25.71429	95	
15V22C5112	-	4	7	11	6 10	-	6 1	4 1	4 13		20	72	20	2.5	2.5	2	5 25	3.75	3.75	3.75	3.75	39.25	46.25	36.25	26.25	20 52.333333	61.66667	65.90909	75	100	
15V22CS113		9	16	25	10	-		0 1	4 20	1 10	20	90	20	2.5	2.5	2.	5 2.5	7	7	7	7	45.5	50.5	35.5	29.5	20 60.666667	67.33333	64.54545	84.28571	100	
15V22CS114	1	7	13	20	8 5	1	3 1	8 1	4 20	10 10	20	90	19	2.5	25	2	5 25	7.5	7.5	7.5	7.5	55	54	45	30	18 73.333333	72	81.81818	85.71429	90	
15V22C5115	-	4	11	15	19 15	-	4 1	9 2	2		10	55	15	2.5	2.0	2	5 25	4 75	4.75	4.75	4.75	29.25	27.25	32.25	17.25	15 39	36.33333	58.63636	49.28571	75	
1SV22CS116		4	7	11	1 1		12 1	4 1	2 4	4 14	10	94	20	2.5	2.5	2	5 25	8 75	8.75	8.75	8.75	57.25	56.25	46.25	24.25	20 76.333333	75	84.09091	69.28571	100	
15V22C5117		7	17	24	15 10	-	15 1	9 1	8 20	20	13	90	20	2.5	2.0	2	5 25	9	9	9	9	61.5	71.5	51.5	28.5	20 82	95.33333	93.63636	81.42857	100	
15V22C5118		20	20	40	10		2	2	0 20	20	1 17	70	15	2.5	2.5	2.	5 25	45	45	45	4.5	51	39	32	26	15 68	52	58.18182	74.28571	75	G REAR
1SV22CS119	1	2	14	16	11 15	-	1 1	5 1	0 .20		19	18	20	2.5	2.5	2.	5 25	4.5	9	4.5	9	71.5	69.5	42.5	31.5	20 95.333333	92.66667	77.27273	90	100	1993
15V22C5120		20	20	40	11 20		31 2		9 1	20	20	96	20	2.5	2.5	2	5 25	7	7	7	7	58.5	65.5	37.5	29.5	20 78	87.33333	68.18182	84,28571	100	
15V22C5121	14	17	18	35	8 12	-	20 1	9 1	9 20	20	20	98	20	2.5	2.3	2.	5 2.5	12	12	12	12	72 5	71.5	53.5	34.5	20 96.666667	95.33333	97.27273	98.57143	100	
1SV22CS122		18	20	38	19 18		2	0 1	9 2	20	20	100	20	2.5	2.3	2.	5 25	9.75	9.75	9.75	9.75	69.25	62.25	48.25	32.25	20 92,333333	83	87.72727	92,14286	100	
1SV22CS123		10	20	30	16 17	1	33 2	0 2	2	20	20	100	20	2.5	2.5	2.	5 2.5	3.73	3.73	3.75	3	38 5	19.5	11.5	5.5	18 51.333333	26	20.90909	15,71429	90	
1SV22CS124	-	4	15	19	6 16	-	22	2 1	0		0	12	20	2.5	2.5	2.	5 2.5	115	11 5	115	115	63	63	45	22	20 84	84	81.81818	62.85714	100	
1SV22CS125		16	16	32	12 19	-	31 1	4 1	0 1	/ 1	8	74	20	2.5	2.5	2.	5 2.5	9.75	9.75	975	9.75	69.25	68.25	48.25	32.25	20 92 333333	91	87.72727	92.14286	100	
1SV22CS126		16	20	36	17 20		37 1	7 2	2	1	20	96	20	2.5	2.5	2.	2.5	5.73	5.75	5.75	0.75	05.25	00.23	40.25	52.25	74.029333	72.14133	73,79273	72.53143	96.48	77.79496
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SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

Department of Physics

Course Outcomes and COs-POs Mapping

Batch 2022-23

Semester – I

Subjec	t: Applied Physics for CV Stream	Subject C 1 Days
	Course Outcomes	Subject Code: BPHYC102
C01	Elucidate the concepts in oscillation	•
CO2	Summarize concepts in oscillations, waves, elasticity photometry.	and material failures plain the concepts in radiation and
CO3	Discuss the principles photonic devices and the	
CO4	Describe the various natural bazards and safet	cation relevant to civil engineering.
CO5	Practice working in groups to conduct experiments in honest measurements.	n physics and perform precise and

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and **PO2** Particular to the statistics of the statis

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering **PO2** Project (1) and (2) and (3) and (4) and (

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions. **PO5** Modern tool usage: Create select and apply or problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues. **PO7** Environment and sustainability. Used a total data to be a set of the set of

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable **PO8** Ethicate Apple of the initial solution of the professional engineering solutions in the solution of the professional engineering solutions in the solution of the professional engineering solutions in development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

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BRAN	СН		CV	Negative.		A	CAD	EMIC Y	EAR		2022	-23		
COURSE	B.1	E	SEM	ESTEI	R	Ι	. 5	SECTIO	N		С			
SUBJECT	APP	LIED	PHYSI	CS FO	R CV	STRE	AM	SUBJE	CT CC	DDE	BPHY	102		
CO & PO MAPPING														
	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11												
C01	3	2			1							2		
CO2	3	2										2		
CO3	3	2										2		
CO4	3	3					1					2		
CO5	3	2	1		2			3	3			2		
AVERAGE	3	2.2	1	Notice	1.5		1	3	3			2		
CO & PO M		n	OVERA	LLM	APPIN	GOF	SUBJ.	ECT				2.09		

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	75.89	2.28	1.52			0.76							1.52
CO2	70.59	2.11	1.41										1.41
CO3	70.28	2.10	1.40										1.40
CO4	66.74	2.00	2.00					0.67					1.21
CO5	94.72	2.84	1.89	0.94		1.89			2.84	2.84			1.89
AVERAGE	75.64	2.27	1.66	0.75		1.13		0.75	2.27	2.27			1.51
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SEM: I	Total	Strength	h	18				(Cours	e:		Applied	Physics for CV Stre	eam	BPHYC1	02						2022-2023		1.11				1	1		
SEC: C	ыт	EST 1		L	A TES	T 2			IA	TEST 3			PRACTICAL COMPONENT (20)		SSIGNEM	ENT (10M	,		SEE MAI	RKS(50)			Total Co	s ATTAIN	MENT			1% of	l Individua		
USN	CO1 CO	4 TO	TAL C	01 0	:03	TOTAL	COI	COI	CO2	CO3	CO4	TOTAL	CO5	CO1	CO2	CO3	CO4	COI	CO2	CO3	CO4	CO1=95	CO2=35	CO3=55	CO4=55	CO5-20	CO1	601	601	1 604 1	004
1SV22CV001	6	2	8	0	0	0	5	8	9	6	6	34	17	2.5	2.5	2.5	2.5	5.75	5.75	5.75	5.75	27.25	17.25	14.25	16.25	17	28 684211	40 28571	25 00000	20 54545	05
ISV22CV002	12	13	25	10	19	29	19	.14	11	20	14	78	18	2.5	2.5	2.5	2.5	6.75	6.75	6.75	6.75	64.25	20.25	48.25	36.25	18	67 631579	57 95714	25.90909	29.54545	85
LSV22CV003	7	12	19	12	5	17	20	19	0	11	0	50	20	2.5	2.5	2.5	2.5	4.5	.4.5	4.5	4.5	65	7	23	19	20	68 421053	37.03/14	41 91919	34 54545	90
SV22CV004	20	10	30	11	11	22	12	20	20	20	19	91	20	2.5	2.5	2.5	2.5	8.5	8.5	8.5	8.5	74	31	42	40	20	77 804727	00 57143	76 26264	34.54545	100
SV22CV005	20	20	40	20	20	40	20	18	19	20	19	96	20	2.5	2.5	2.5	2.5	11	11	11	11	91.5	32.5	53.5	52.5	20	96 315790	07 95714	07 37373	12.12/2/	100
SV22CV006	15	12	27	14	16	30	19	19	12	16	11	77	19	2.5	2.5	2.5	2.5	6.75	6.75	6,75	6.75	76.25	21.25	41.25	32.5	10	90.36315785	52.03/14	97.27273	95.45455	100
SV22CV007	20	20	40	20	19	39	20	19	20	20	18	97	20	2.5	2.5	2.5	2.5	10	10	10	10	91.5	32.5	51.5	50.5	20	06 215 790	03.95714	03 (3(3)	58.63636	95
SV22CV008	19	14	33	16	11	27	20	19	19	19	16	93	20 .	2.5	2.5	2.5	2.5	8.75	8.75	8.75	8.75	85.25	30.25	41 25	41 25	20	90.313789	92.03/14	93.03030	91.81818	100
SV22CV009	20	20	40	20	19	39	20	20	20	20	18	98	20	2.5	2.5	2.5	2.5	10	10	10	10	92.5	32.5	51 5	50.5	20	07.30042	80.42857	/5	/5	100
SV22CV010	20	19	39	19	20	39	20	19	20	20	20	99	20	2.5	2.5	2.5	2.5	10.75	10.75	10.75	10.75	91.25	33 25	52.35	50.5	20	97.368421	92.85/14	93.63636	91.81818	100
SV22CV011	15	11	26	20	17	37	19	19	19	20	20	97	20	2.5	2.5	2.5	2.5	7 75	7 75	7 75	7 75	92.25	20.25	47.25	52.25	20	96.052632	95	96.81818	95	100
SV22CV012	10	7	17	8	14	22	14	11	8	13	9	55	1 19	2.5	2.5	2.5	2.5	45	45	45	1.15 A E	63.23	29.25	47.25	41.25	20	87.631579	83.57143	85.90909	75	100
SV22CV013	3	.3	6	8	5	13	13	15	7	6	5	46	20	2.5	2.5	2.5	25	5 75	5 75	5 75	E 7E	47.25	15 25	34	23	19	52.631579	42.85714	61.81818	41.81818	95
SV22CV014	9	18	27	14	7	21	1.11			-		A	1 10	2.5	2.5	25	25	6.75	6.75	6.75	6.75	47.25	15.25	19.25	16.25	20	49.736842	43.57143	35	29.54545	100
SV22CV015	17	6	23	10		10	14	20	19	12	14	79	20	25	25	25	25	6.75	6.75	6.75	0.75	32.25	9.25	16.25	27.25	10	33.947368	26.42857	29.54545	49.54545	50
SV22CV016	14	7	21	14	8	22	19	20	18	20	17	94	18	2.5	2.5	2.5	2.5	6.25	0.25	0.25	6.25	69.75	27.75	20.75	28.75	20	73.421053	79.28571	37.72727	52.27273	100
LSV22CV017	19	20	39	20	18	38	20	20	20	20	19	99	20	2.5	2.5	2.5	2.5	0.5	6.5	6.5	6.5	76	27	37	33	18	80	77.14286	67.27273	60	90
SV22CV018	19	19	38	20	20	40	20	19	20	20	10	09	20	2.5	2.5	2.5	2.5	9.5	9.5	9.5	9.5	91	32	50	51	20	95.789474	91.42857	90.90909	92.72727	100
			50		20	40	20	19	20	20	19	96	20	2.5	2.5	2.5	2.5	9	9	9	9	89.5	31.5	51.5	49.5	20	94.210526	90	93.63636	90	100
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Department of Physics

Course Outcomes and COs-POs Mapping

Batch 2022-23

Semester – II

Subject	t: Applied Physics for CSE Stream	Subject Code: BPHYS202
	Course Outcomes	
C01	Describe the principles of LASERS and Optical fibers	and their relevant applications
CO2	Discuss the basic principles of the Quantum Mechani Computing.	cs and its application in Quantum
CO3	Summarize the essential properties of superconduct Computing.	ors and applications in Quantum
CO4	Illustrate the application of physics in design and data	analysis
CO5	Practice working in groups to conduct experiments in honest measurements.	physics and perform precise and

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

COLLEGE		SHR	IDEVI	INSTI	TUTE	OF EN	GIN	EERING	G AND	TECHI	NOLOG	Y			
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BRAN	NCH		ISE & .	AIDS		1	ACAD	EMIC	YEAR		2022	2-23			
COURSE	B.	E	SEM	ESTE	R	II		SECTIC	DN		D&E				
SUBJECT		APPL	JED PH ST	IYSIC REAN	S FOR	CSE		SUBJE	CCT CO	DDE	ВРНУ	'S202			
CO & PO MAPPING															
	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11													
C01	3	2								-		2			
CO2	3	3									•	2			
CO3	3	3										2			
CO4	3	2	1		1							2			
C05	3	2	1		2			3	3			2			
VERAGE	3	2.4	1		1.5			3	3			2			
(S. 2) (D)		0	VERA		PPIN	COFS			-			4			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	56.57	1.69	1.13										
CO2	13.68	1 21	1 21										1.13
	43.00	1.51	1.51										0.87
CO3	71.81	2.15	2.15										1.44
CO4	71.41	2.14	1.42	0.71		0.71							1.43
CO5	91.89	2.76	1.83	0.92		1.83			2.76	2.76			1.84
AVERAGE	67.07	2.01	1.57	0.82		1.27			2.76	2.76			1.34
COMANT		INTE						FINA	LAT	ΓΑΙΝΜ	ENT L	EVEL	1.79

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HOD H.O.D Dept. of Physics S.I.E.T., TUMKUR -6.

Name Stagenel PRINCIPAL PRINCIPAL

SEM: II	II Total Strength 111		Course:	Applied	Physics for CSE Stream	BPH	IYS202		and the				2022-2023			C. Standard								
SEC: D & E	IA TEST 1	IA TEST 2	IA TEST 3	1	PRACTICAL COMPONENT	ASSIG	GNEMENT (10M)			SEE MA	RKS(50)			Total Co	DS ATTAIN	MENT		10- 10- 1- 1 1	% of Individual CO					
USN	CO2 CO1 TOTAL	CO3 CO1 TOTAL	CO1 CO2 CO2 CO3 CO4	TOTAL	(25) CO5 C	01 C	02 CO3	100	COL	C02	C03	CO1	CO1-75	C02-76	C02-44	CO 1 20	001.01					1.1.1		
1SV22IS001	18 16 34	20 20 40	20 20 2	60 60	24	2.5	2.5 2.5	2.5	8.75	8.75	8.75	8.75	47.25	49.25	51.25	31.25	24	63	CO2	CO3	CO4	CO5		
15V22I5002	9 10 19	17 11 28	15 19 2	20 54	20	2.5	2.5 2.5	2.5	6.75	6.75	6.75	6.75	30.25	33.25	45.25	29.25	20	40.333333	44.33333	82.27273	83.57143	80		
15V22IS003	17 16 33	20 18 38		46	25	2.5	2.5 2.5	2.5	9	9	9	9	50.5	48.5	36.5	31.5	25	67.333333	64.66667	66.36364	90	100		
15V22IS005	A	15 6 21		2 41	23	2.5	2.5 2.5	2.5	10.25	10.25	10.25	10.25	46.75	49.75	52.75	32.75	25	62.333333	66.33333	95.90909	93.57143	100		
15V22IS006	18 10 28	13 6 19	7 11 1	2 30	16	2.5	2.5 2.5	2.5	6.25	6.5	6.5	6.5	31 75	20	27 75	21	22	20	26.66667	76.36364	60	88		
15V22I5007	9 9 18	14 14 28	20 8	7 35	16	2.5	2.5 2.5	2.5	7.25	7.25	7.25	7.25	32.75	38.75	31.75	16.75	16	43.666667	51 66667	59.54545	47 85714	64		
15V22IS008	10 15 25	14 13 27		38	24	2.5	2.5 2.5	2.5	9.25	9.25	9.25	9.25	50.75	21.75	32.75	31.75	24	67.666667	29	59.54545	90.71429	96		
15V22IS010	20 17 37	20 20 40		6 54	24	2.5	2.5 2.5	2.5	8.25	8.25	8.25	8.25	39.75	45.75	47.75	26.75	24	53	61	86.81818	76.42857	96		
15V22I5011	20 20 40	20 20 40	20 20 2	0 60	25	2.5	2.5 2.5	2.5	9.25	9.25	9.75	7.5	47 51 75	50	50	30	25	62.666667	66.66667	90.90909	85.71429	100		
15V22IS012	18 16 34	15 19 34	20 19 2	0 59	24	2.5	2.5 2.5	2.5	8.5	8.5	8.5	9.25	46	49	45	31.75	25	61 333333	65 33333	94.09091	90.71429	100		
15V22IS013	7 8 15	14 18 32	20 18 1	.8 56	25	2.5	2.5 2.5	2.5	4.5	4.5	4.5	4.5	33	34	39	25	25	44	45.33333	70.90909	71.42857	100		
15V22IS014	20 16 36	13 14 27		3 29	25	2.5	2.5 2.5	2.5	5	5	5	5	37.5	18.5	29.5	20.5	25	50	24.66667	53.63636	58.57143	100		
15V22IS016	7 8 15	3 4 7	5 7 2	0 54	25	2.5	2.5 2.5	2.5	9.75	9.75	9.75	9.75	57.25	32.25	43.25	32.25	25	76.333333	43	78.63636	92.14286	100		
15V22I5017	20 15 35	20 12 32	20 4 1	5 39	25	2.5	2.5 2.5	2.5	4.5	4.5	4.5	4.5	38.5	51.5	35.5	27	23	51 222222	18.66667	30.90909	77.14286	92		
15V22IS018	20 20 40	20 19 39	20 20 2	0 60	25	2.5	2.5 2.5	2.5	10.5	10.5	10.5	10.5	52	53	53	33	25	69.333333	70.66667	96.36364	94 28571	100		
15/22/5019	14 16 30	18 15 33	14 20 2	0 54	22	2.5	2.5 2.5	2.5	10	10	10	10	57.5	26.5	50.5	32.5	22	76.666667	35.33333	91.81818	92.85714	88		
15V22IS021	20 16 36	19 20 39		0 54	22	2.5	2.5 2.5	2.5	7.75	7.75	7.75	7.75	67.25	30.25	41.25	30.25	22	89.666667	40.33333	75	86.42857	88		
15V22I5022	12 18 30	15 18 33	17 17 1	9 53	25	2.5	2.5 2.5	2.5	8 75	9.75	9.75	11	49.5	53.5	51.5	33.5	25	66	71.33333	93.63636	95.71429	100		
15V22IS023	15 19 34	15 20 35	20 19 2	0 59	25	2.5	2.5 2.5	2.5	9.75	9.75	9.75	9.75	51.25	40.25	43.25	30.25	25	68 333333	53.66667	78.63636	86.42857	100		
15V22IS024	10 16 26	15 20 35	14 16 2	0 50	25	2.5	2.5 2.5	2.5	8.75	8.75	8.75	8.75	47.25	35.25	42.25	31.25	25	63	47	76.81818	89.28571	100		
15V22IS025	14 15 29	20 20 40		0 53	24	2.5	2.5 2.5	2.5	9.25	9.25	9.25	9.25	45.75	48.75	44.75	31.75	24	61	65	81.36364	90.71429	96		
15V22IS027	11 14 25	15 9 24	20 15 1	4 <u>33</u> 7 <u>52</u>	24	2.5	2.5 2.5	2.5	10.25	10.25	10.25	10.25	42.75	32.75	43.75	26.75	24	57	43.66667	79.54545	76.42857	96		
15V22IS028	18 14 32	18 19 37	11 20 20	0 51	24	2.5	2.5 2.5	2.5	7.5	7.5	7.5	7.5	43	41	40	2/	24	57 222222	54.66667	72.72727	77.14286	96		
15V22IS029	10 12 22	9 15 24	12 20 1	8 50	24	2.5	2.5 2.5	2.5	4.5	4.5	4.5	4.5	46	17	36	25	24	61.3333333	22.66667	65.45455	71.42857	96		
15V22IS030	10 16 26	12 15 27		0 52	24	2.5	2.5 2.5	2.5	6	6	6	6	51.5	18.5	40.5	28.5	24	68.666667	24.66667	73.63636	81.42857	96		
15V22IS032	20 20 40	20 20 40	20 20 20 20	0 60	24	2.5	2.5 2.5	2.5	7	7	7	7	60.5	27.5	45.5	29.5	24	80.666667	36.66667	82.72727	84.28571	96		
1SV22IS033	19 20 39	20 20 40	20 20 20	0 60	25	2.5	2.5 2.5	2.5	9.5	9.5	9.5	9.5	74.75	34.75	54.75	34.75	24	99.666667	46.33333	99.54545	99.28571	96		
15V22I5034	6 10 16	12 14 26	12 11 10	0 33	24	2.5	2.5 2.5	2.5	4.75	4.75	4.75	4.75	31.25	25.25	30.25	17.25	24	41.666667	33.66667	55	49.28571	96		
15V22IS035	9 7 16	20 16 36		60 60	24	2.5	2.5 2.5	2.5	10.75	10.75	10.75	10.75	69.25	33.25	53.25	33.25	24	92.333333	44.33333	96.81818	95	96		
15V22IS038	20 20 40	20 20 40	18 20 20	58	25	2.5	2.5 2.5	2.5	5.75	5.75	5.75	5.75	48.25	17.25	45.25	26.25	21	64.333333	23	82.27273	75	84		
15V22IS039	20 16 36	12 17 29	20 20 10	0 50	25	2.5	2.5 2.5	2.5	8.5	8.5	8.5	8.5	67.75	29.75	49.75	29.75	25	90.3333333	39.66667	90.45455	85	100		
15V22I5040	13 16 29	A	11 20 14	4 45	16	2.5	2.5 2.5	2.5	5.5	5.5	5.5	5.5	35	21	28	22	16	46.666667	28	50,90909	62.85714	64		
15V22IS041	12 12 24	9 6 15		46	24	2.5	2.5 2.5	2.5	3.75	3.75	3.75	3.75	33.25	13.25	28.25	26.25	24	44.333333	17.66667	51.36364	75	96		
15V22IS043	20 . 19 39	20 18 38	12 15 20	0 47	24	2.5	2.5 2.5	2.5	6	6	6	6	31.5	29.5	30.5	25.5	24	42	39.33333	55.45455	72.85714	96		
15V22IS044	19 18 37	20 18 38	18 20 18	8 56	24	2.5	2.5 2.5	2.5	8.75	8.75	9.5	9.5	47.25	32	51 25	32	25	81.333333	42.66667	85.45455	91.42857	100		
15V22IS045	19 17 36	18 13 31	17 20 20	57	24	2.5	2.5 2.5	2.5	6.25	6.25	6.25	6.25	38.75	44.75	46.75	29.25	24	51.666667	59.66667	93.18182	83.5/143	96		
15V22IS046	14 15 29	17 14 31	13 16 20	49	25	2.5	2.5 2.5	2.5	9.75	9.75	9.75	9.75	54.25	26.25	45.25	32.25	25	72.333333	35	82.27273	92.14286	100		
15V21I5020	14 15 29	12 10 22	8 14 0	59	25	2.5	2.5 2.5	2.5	8.75	8.75	8.75	8.75	64.25	31.25	51.25	31.25	25	85.666667	41.66667	93.18182	89.28571	100		
15V22AD001	7 17 24	19 10 29	5 5 3	3 13	23	2.5	2.5 2.5	2.5	10.75	10.75	10.75	10.75	46.25	27.25	39.25	13.25	20	61.666667	36.33333	71.36364	37.85714	80		
15V22AD002	16 15 31	19 18 37	14 20 15	5 49	24	2.5	2.5 2.5	2.5	10.25	10.25	10.25	10.25	59.75	28.75	51.75	27.75	23	79 666667	21.333333	94 09091	34.28571	92		
15V22AD003	6 15 21	2 2 4	0 6 5	5 11	24	2.5	2.5 2.5	2.5	6	6	6	6	25.5	14.5	16.5	13.5	24	34	19.33333	30	38.57143	96		
15V22AD005	17 20 37	19 18 37		5 7	19	2.5	2.5 2.5	2.5	5	5	5	5	23.5	9.5	20.5	13.5	19	31.333333	12.66667	37.27273	38.57143	76		
1SV22AD006	11 5 16	14 11 25	6 14 10	30	23	2.5	2.5 2.5	2.5	10.25	10.25	10.25	10.25	62.75	29.75	51.75	32.75	25	83.666667	39.66667	94.09091	93.57143	100		
15V22AD007	18 15 33	14 20 34	20 14 18	3 52	24	2.5	2.5 2.5	2.5	8	7.23	7.23	7.25	45.5	48.5	37.75	19.75	23	42.333333	27.66667	68.63636	56.42857	92		
15V22AD008	4 17 21	12 8 20	12 8 5	5 25	23	2.5	2.5 2.5	2.5	5.75	5.75	5.75	5.75	33.25	24.25	28.25	13.25	23	44.3333333	32.33333	51.36364	37.85714	96		
15V22AD009		10 2 12	11 13 5	28	23	2.5	2.5 2.5	2.5	3.25	3.25	3.25	3.25	13.75	23.75	28.75	10.75	23	18.333333	31.66667	52.27273	30.71429	92		
15V22AD011	14 17 31	14 16 30		25	20	2.5	2.5 2.5	2.5	4.5	4.5	4.5	4.5	30	23	34	7	20	40	30.66667	61.81818	20	80		
1SV22AD012	6 4 10	8 5 13	7 3 12	22	23	2.5	2.5 2.5	2.5	10	10	10	10	52.5	26.5	41.5	31.5	24	70	35.33333	75.45455	90	96		
15V22AD013	16 18 34	19 20 39	20 20 20	60	24	2.5	2.5 2.5	2.5	11.75	11.75	4.5	4.5	72.25	30.25	53 25	19	23	21.333333	26.66667	32.72727	54.28571	92		
15V22AD014	17 20 37	20 18 38	20 12 20	52	25	2.5	2.5 2.5	2.5	9.75	9.75	9.75	9.75	50.25	49.25	44.25	32.25	25	67	65.66667	80.45455	2.14286	100		
15V22AD015	13 9 39	20 20 40	20 20 20	60	25	2.5	2.5 2.5	2.5	11	11	11	11	52.5	53.5	53.5	33.5	25	70	71.33333	97.27273	95.71429	100		
1SV22AD017	11 11 22	17 10 27	20 15 15	55	23	2.5	2.5 2.5	2.5	7.25	7.25	7.25	7.25	35.75	37.75	43.75	29.75	23	47.666667	50.33333	79.54545	85	92		
1SV22AD018	0 7 7	9 4 13			24	2.5	2.5 2.5	2.5	2.5	2.5	2.5	6.75	30.25	40.25	41.25	24.25	24	40.333333	53.66667	75 0	9.28571	96		
1SV22AD019	19 19 38	20 20 40	20 20 15	55	24	2.5	2.5 2.5	2.5	10.5	10.5	10.5	10.5	52	52	53	28	24	69 333333	69 33332	25.45455	4.28571	96		
15V22AD020	16 15 31	15 13 28	13 17 8	38	22	2.5	2.5 2.5	2.5	6.25	6.25	6.25	6.25	49.75	24.75	40.75	16.75	22	66.333333	33	74.09091 4	7.85714	88		
15V22AD022	13 6 19	14 16 30	12 19 20	51	23	2.5	2.5 2.5	2.5	. 7.75	7.75	7.75	7.75	48.25	26.25	43.25	30.25	23	64.333333	35	78.63636 8	6.42857	92		
1SV22AD023	12 8 20	17 14 31	19 20 20	59	23	2.5	2.5 2.5	2.5	9.75	9.75	9.75	9.75	30	34	43	30	23	40 4	45.33333	78.18182 8	5.71429	92		
15V22AD024	18 17 35	20 18 38	20 20 20	60	25	2.5	2.5 2.5	2.5	11.5	11.5	11.5	11.5	49	43.25	49.25	32.25	24	45.666667	59 33222	89.54545 9	7 14286	.96		
				SOLAR COL	States and a state of the				0.000	1.								00.000000000000000000000000000000000000		0.101021 5	7.14200	100		

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24	2.5	2.5	2.5	2.5	9.5	9.5	9.5	9.5	39	49	51	24	24	52	65.33333	92.72727	68.57143	96
4	2.5	2.5	2.5	2.5	7.5	7.5	7.5	7.5	45	39	43	25	24	60	52	78.18182	71.42857	96
5	2.5	2.5	2.5	2.5	10	10	10	10	50.5	45.5	51.5	28.5	25	67.333333	60.66667	93.63636	81.42857	100
4	2.5	2.5	2.5	2.5	7.75	7.75	7.75	7.75	63.25	29.25	46.25	26.25	24	84.333333	39	84.09091	75	96
4	2.5	2.5	2.5	2.5	5	5	5	5	27.5	27.5	28.5	21.5	24	36.666667	36.66667	51.81818	61.42857	96
2	2.5	2.5	2.5	2.5	6	6	6	6	40.5	35.5	26.5	28.5	22	54	47.33333	48.18182	81.42857	88
5	2.5	2.5	2.5	2.5	8.5	8.5	8.5	8.5	46	46	33	29	25	61.333333	61.33333	60	82.85714	100
4	2.5	2.5	2.5	2.5	8	8	. 8	8	33.5	42.5	44.5	30.5	24	44.666667	56.66667	80.90909	87.14286	96
0	2.5	2.5	2.5	2.5	7.25	7.25	7.25	7.25	18.75	14.75	34.75	28.75	20	25	19.66667	63.18182	82.14286	80
5	2.5	2.5	2.5	2.5	10	10	10	10	52.5	52.5	47.5	32.5	25	70	70	86.36364	92.85714	100
4	2.5	2.5	2.5	2.5	7.25	7.25	7.25	7.25	40.75	37.75	37.75	16.75	24	54.333333	50.33333	68.63636	47.85714	96
3	2.5	2.5	2.5	2.5	6	6	6	6	31.5	34.5	35.5	27.5	23	42	. 46	64.54545	78.57143	92
9	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.5	20	22	13	7	19	26.666667	29.33333	23.63636	20	76
	2.5	2.5	2.5	2.5	7	7	7	7	25.5	33.5	32.5	27.5	25	34	44.66667	59.09091	78.57143	100
	2.5	2.5	2.5	2.5	7.25	7.25	7.25	7.25	44.75	23.75	30.75	19.75	15	59.666667	31.66667	55.90909	56.42857	60
	2.5	2.5	2.5	2.5	6	6	6	6	64.5	26.5	37.5	13.5	25	86	35.33333	68.18182	38.57143	100
	2.5	2.5	2.5	2.5	11.5	11.5	11.5	11.5	71	33	51	34	25	94.666667	44	92.72727	97.14286	100
	2.5	2.5	2.5	2.5	8	8	8	8	50.5	50.5	45.5	29.5	24	67.333333	67.33333	82.72727	84.28571	96
	2.5	2.5	2.5	2.5	8	8	8	8	35.5	19.5	30.5	30.5	24	47.333333	26	55.45455	87.14286	96
	2.5	2.5	2.5	2.5	9.5	9.5	9.5	9.5	41	19	30	12	25	54.666667	25.33333	54.54545	34.28571	100
	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	17	24	30	19	25	22.666667	32	54.54545	54.28571	100
	2.5	2.5	2.5	2.5	9.25	9.25	9.25	9.25	48.75	42.75	42.75	20.75	24	65	57	77.72727	59.28571	96
	2.5	2.5	2.5	2.5	4.75	4.75	4.75	4.75	21.25	13.25	22.25	7.25	23	28.333333	17.66667	40.45455	20.71429	92
	2.5	2.5	2.5	2.5	8.5	8.5	8.5	8.5	45	49	41	31	24	60	65.33333	74.54545	88.57143	96
	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	21	26	12	11	20	28	34.66667	21.81818	31.42857	80
	2.5	2.5	2.5	2.5	2	2	2	2	13.5	10.5	10.5	10.5	17	18	14	19.09091	30	68
	2.5	2.5	2.5	2.5	8.75	8,75	8.75	8.75	51.25	51.25	49.25	26.25	25	68.333333	68.33333	89.54545	75	100
	2.5	2.5	2.5	2.5	7.5	7.5	7.5	7.5	28	27	47	30	24	37.333333	36	85.45455	85.71429	96
	2.5	2.5	2.5	2.5	7.75	7.75	7.75	7.75	37.25	32.25	36.25	16.25	20	49,666667	43	65,90909	46.42857	80
	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.5	24	20	29	19	18	32	26.66667	52.72727	54.28571	72
1	2.5	2.5	2.5	2.5	8	8	8	8	42.5	35.5	39.5	25.5	20	56,666667	47.33333	71.81818	72.85714	80
	2.5	2.5	2.5	. 2.5	8,25	8.25	8.25	8.25	34.75	27.75	45.75	28,75	22	46.333333	37	83.18182	82.14286	88
	2.5	2.5	2.5	2.5	6.75	6.75	6.75	6.75	30.25	24.25	41.25	16.25	20	40.333333	32.33333	75	46.42857	80
	25	2.5	2.5	25	95	9.5	9.5	95	51	50	52	30	25	68	66.66667	94.54545	85.71429	100
	25	2.5	2.5	25	11	11	11	11	73.5	33 5	53 5	33 5	24	98	44.66667	97.27273	95.71429	96
	2.5	2.5	2.5	2.5	5	5	5	5	46.5	25.5	41 5	12.5	24	62	34	75.45455	35.71429	96
1977	2.5	2.5	2.5	2.5	75	75	75	75	50	49	50	30	25	66 666667	65 33333	90,90909	85 71429	100
1.2	2.5	2.5	2.5	2.5	6.25	6.25	6.25	6.25	40.75	33 75	31 75	18 75	22	54 333333	45	57 72727	53 57143	88
	2.5	2.5	2.5	2.5	10.25	10.25	10.75	10.75	51 25	51 25	49.25	33.25	25	68 333333	68 33333	89 54545	95	100
10	2.5	2.5	2.5	2.5	0.75	0.75	0.75	0.75	8 25	3 25	6 25	3 25	14	11	4 333333	11 36364	9 285714	56
	2.3	2.5	2.5	2.5	0.75	0.75	0.75	0.75	0.23	3.23	0.25	3.25	-4	57 006006	44 02202	77 41106	71 09843	92 72072

ISV22AD025	20	8	28	20	19	39			17	19	12	48
1SV22AD026	13	17	30	18	18	36			16	15	15	46
1SV22AD027	20	20	40	19	18	37			13	20	16	49
1SV22AD028	19	19	38	17	15	32	19	0.000	1.00	19	16	54
1SV22AD029	5	7	12	11	13	24			15	10	14	39
1SV22AD030	12	12	24	11	20	31		15		7	20	42
1SV22AD031	18	15	33	15	20	35			17	7	18	42
1SV22AD032	19	10	29	14	13	27			13	20	20	53
1SV22AD033	5	1	6	12	6	18	2	194.4	1	13	19	• 34
1SV22AD034	20	20	40	20	20	40		20		15	20	55
1SV22AD035	15	16	31	14	15	29		1.100	13	14	7	34
1SV22AD036	10	7	17	15	16	31		16		12	19	47
15V22AD037	5	8	14	6	5	11		10		0	0	10
1SV22AD038	12	7	19	9	9	18		12		14	18	44
1SV22AD039	14	11	25	19	12	31	12			2	10	24
1SV22AD040	18	20	38	18	18	36	18	1.1		11	5	34
1SV22AD041	19	17	36	20	20	40	20			17	20	57
1SV22AD042	20	20	40	20	20	40	100.00	20		15	19	54
1SV22AD043	9	15	24	6	4	10	6	1.000	Sec. 1	14	20	40
1SV22AD044	7	13	20	18	16	34	197115			14111	1.16	A
1SV22AD045	8	6	14	9	5	14		10		15	13	38
1SV22AD046	13	17	30	15	20	35		18		16	9	43
1SV22AD047	6	7	13	15	7	22					12.00	A
1SV22AD048	20	20	40	12	14	26		18	100	18	20	56
1SV22AD049	12	15	27		R. C.	A	14.14	8		6	5	19
1SV22AD050	1	5	6	3	4	7		21013	5	3	6	14
1SV22AD051	20	20	40	19	20	39		20		19	15	54
1SV22AD052		1	A	18	18	36		12.00	17	19	20	56
1SV22AD053	8	12	20	14	15	29		14		12	6	32
15V22AD054	.6	8	14	14	9	23	1012	7		8	12	27
1SV22AD055	11	12	23	14	20	34		14		15	15	44
15V22AD056	5	7	12	17	17	34			12	18	18	48
1SV22AD057	3	7	10	14	14	28	1000	12152	12	18	7	37
15V22AD058	18	19	37	20	20	40		20		20	18	58
15V22AD059	20	20	40	20	20	40	20			20	20	60
15V22AD060	18	5	23	19	20	39	14			15	5	34
1SV22AD061	19	20	39	20	20	40	1000	20		20	20	. 60
15V22AD062	5	13	18	10	19	29		20		13	10	43
1SV22AD063	18	18	36	19	20	39			20	17	20	57
1SV21AD007	0	0	0	3	5	8	10.00				100	

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SIRA ROAD, TUMKUR- 572 106.

Department of Physics

Course Outcomes and COs-POs Mapping

Batch 2022-23

Semester – II

Subject	: Applied Physics for EEE Stream	Subject Code: BPHYE202
CAPIEN	Course Outcomes	
CO1	Describe the fundamental principles of the Quantum Photonics.	Mechanics and the essentials of
CO2	Elucidate the concepts of conductors, dielectrics and s	uperconductivity
CO3	Discuss the fundamentals of vector calculus and Equations and EM Waves.	their applications in Maxwell's
CO4	Summarize the properties of semiconductors a semiconductor devices	nd the working principles of
CO5	Practice working in groups to conduct experiments in honest measurements	physics and Perform precise and

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including, probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

COLLEGE		SHF	RIDEVI	INSTI	TUTE	OF EN	GIN	EERING	G AND	TECHN	NOLOG	Y				
FACULTY	YNAN	1E	ARPITHA H S													
BRAN	ICH		ECE &	EEE		I	ACAL	DEMIC	YEAR		2022-23					
COURSE	B.	E	SEM	ESTE	R	II		SECTIC	DN		F					
SUBJECT	BJECT APPLIED PHYSICS FOR EEE SUBJECT CODE															
CO & PO M	APPIN	NG		esale.	96 10		00.0	<u>beselset</u> en	01.674		1.10					
	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10														
C01	3	2										2				
CO2	3	2										2				
CO3	3	2					•					2				
CO4	3	2			1	•						2				
CO5	3	2	1		2			3	3			2				
AVERAGE	3	2	1		1.5			3	3			2				
0 5 PO M	poin	(OVERA	LL MA	PPIN	G OF S	SUBJI	ECT				2.21				

T	C0%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C01	72.30	2.17	1.46										
CO2	70.21	2.11	1.40		an going								1.46
CO3	70.90	2.13	1.42										1.40
CO4	52.68	1.58	1.05			0.53							1.42
CO5	94.20	2.83	1.88	0.94		1.88			2 02	2 02			1.05
AVERAGE	72.05	2.16	1.44	0.94		1.20		1.54.5	2.83	2.05			1.88
(DAN)	TACATT							FINA	L AT	FAINM	IENT L	EVEL	1.83

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SEM: II	То	tal Stre	ngth	51			Course: sics for EEE Stream		CEE Stream	ВРНУЕ202								2022-2023															
SEC: F	1	A TEST	1		IA TES	т 2			IA T	EST 3			PRACTICAL COMPONENT (25)	AS	SIGNEM	ENT (10M)			SEE MA	RKS(50)			Total Co	S ATTAIN	MENT			% of	% of Individual CO				
USN .	CO4	CO2	TOTAL	CO2	CO4	TOTAL	CO4	CO4	CO2	COI	CO3	TOTAL	CO5	COI	CO2	CO3	CO4	COI	CO2	CO3	CO4	CO1=35	CO2=75	CO3=35	CO4=95	CO5=25	CO1	CO2	CO3	CO4	C05		
15V22EC001	17	9	26	14	13	27	19	128501		16	20	55	19	2.5	2.5	2.5	2.5	5.75	5.75	5.75	5.75	24.25	31.25	28.25	57.25	19	69.285714	41.66667	80.71429	60.26316	76		
15V22EC002	12	4	16	15	6	21			. 20	14	11	45	16	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.5	21	46	18	25	16	60	61.33333	51.42857	26.31579	64		
1SV22EC003	11	18	29	19	19	. 38			20	20	19	59	25	2.5	2.5	. 2.5	2.5	6.75	6.75	6.75	6.75	29.25	66.25	28.25	39.25	25	83.571429	88.33333	80.71429	41.31579	100		
1SV22EC004	17	20	37	19	18	37		20	1.20	20	20	60	25	2.5	2.5	2.5	2.5	8.5	8.5	8.5	8.5	31	50	31	66	25	88.571429	66.66667	88.57143	69.47368	100		
1SV22EC005	15	18	33	15	8	23		20		20	18	58	24	2.5	2.5	2.5	2.5	7	7	7	. 7	29.5	42.5	27.5	52.5	24	84.285714	56.66667	78.57143	55.26316	96		
15V22EC006	20	20	40	19	20	39			20	20	20	60	25	2.5	2.5	2.5	2.5	9	. 9	9	9	31.5	70.5	31.5	51.5	25	90	94	90	54.21053	100		
1SV22EC007	15	11	26	20	13	33			15	19	15	49	18	2.5	2.5	2.5	2.5	5.75	5.75	5.75	5.75	27.25	54.25	23.25	36.25	18	77.857143	72.33333	66.42857	38.15/89	72		
1SV22EC008	11	4	15	19	11	30					1000	A	19	2.5	2.5	2.5	2.5	3.25	3.25	3.25	3.25	5.75	28.75	5.75	27.75	19	16.4285/1	38.33333	16.42857	42 26842	100		
1SV22EC009	17	20	37	17	14	31			20	20	20	60	25	2.5	2.5	2.5	2.5	6.75	6.75	6.75	6.75	29.25	66.25	29.25	40.25	25	83.5/1429	88.33333	83.3/143	42.30042	100		
1SV22EC010	8	11	19	18	14	32			14	15	13	42	24	2.5	2.5	2.5	2.5	5.25	5.25	5.25	5.25	22.75	50.75	20.75	29.75	24	65	07.00007	93.285/1	51.515/9	100		
1SV22EC011	19	17	36	18	20	33	-		20	20	20	60	25	2.5	2.5	2.5	2.5	6.5	6.5	6.5	6.5	29	64	29	48	25	82.85/143	63 333333	79 57142	30.32032	84		
15V22EC012		1	A	20	20	40	-		20	14	20	54	21	2.5	2.5	2.5	2.5	5	5	5	5	21.5	47.5	21.5	50.35	21	89 285714	03.333333	89 28571	52 89474	100		
1SV22EC013	20	20	40	20	19	39	-		20	20	20	60	25	2.5	2.5	2.5	2.5	8.75	8.75	8.75	8.75	31.25	/1.25	31.25	50.25	25	83.203/14	55 66667	80 71420	68 68471	100		
1SV22EC014	20	20	40	20	16	36	20			20	19	59	25	2.5	2.5	2.5	2.5	6.75	6.75	6.75	6.75	29.25	49.25	28.25	56 25	25	45 428571	49 66667	69 28571	59 21053	96		
1SV22EC015	14	16	30	17	20	37	1	18		12	20	50	24	2.5	2.5	2.5	2.5	1.75	1.75	1.75	1.75	16.25	37.25	24.25	30.23	24	40.4203/1	49.00007	50 29571	37 63158	92		
1SV22EC016	11	13	24	20	19	39	-		19	12	15	46	23	2.5	2.5	2.5	2.5	3.25	3.25	3.25	3.25	22.75	57.75	20.75	33.75	25	93 5714280	03	93.57143	51.31579	100		
1SV22EC017	16	17	37	20	20	40	-		20	20	20	60	25	2.5	2.5	2.5	2.5	10.25	10.25	10.25	10.25	32.75	63.75	32.75	40.75	23	79 285714	83 66667	79 28571	45	92		
15V22EC018	15	18	33	17	20	37			20	20	20	60	23	2.5	2.5	2.5	2.5	5.25	5.25	5.25	5.25	27.75	47.75	27.75	64.75	23	80 714796	63	80,71429	67.63158	100		
15V22EC019	20	20	40	19	16	35	20			20	20	60	25	2.5	2.5	2.5	2.5	5.75	5.75	5./5	5./5	28.25	47.25	20.23	65.25	23	80 714286	60 33333	80 71429	68 68421	96		
15V22EC020	20	19	39	18	17	35	20			20	20	60	24	2.5	2.5	2.5	2.5	5./5	5./5	5.75	5./5	28.25	45.25	20.25	03.25	24	85 714286	65 33333	85,71429	73.68421	100		
1SV22EC021	20	20	40	19	20	39	20			20	20	60	25	2.5	2.5	2.5	2.5	7.5	7.5	7.5	7.5	22.25	£1 25	20.25	38 75	23	63 5714200	68 33333	57.85714	40,26316	96		
1SV22EC022	10	18	28	14	20	34	-		11	14	12	3/	24	2.5	2.5	2.5	2.5	5.75	5.75	3.75	5.75	22.23	51.25	11 5	64.5	24	90	92 66667	32 85714	67 89474	96		
1SV22EC023	17	18	35	20	17	37	-	19	20	20		59	24	2.5	2.5	2.5	2.5	9	9	9	9	51.5	09.5	23	53	24	54 285714	60	65 71429	55,78947	96		
1SV22EC024	13	18	31	19	18	3/	-	14		11	15	40	24	2.5	2.5	2.5	2.5	3.5	3.5	3.3	3.3	30.5	50.5	29.5	70.5	25	87.142857	67.33333	84.28571	74.21053	100		
1SV22EC025	20	20	40	20	20	40	-	20	20	20	19	59	25	2.5	2.5	2.5	2.5	7 75	7 75	7 75	7 75	10.25	62.25	30.25	50.25	15	29 285714	83	86.42857	52,89474	60		
15V22EC026	20	13	33	19	20	39	15	-	20	20	20	40	15	2.5	2.5	2.5	2.3	1.13	1.15	1.15	45	27	45	27	54	25	77.142857	60	77.14286	56.84211	100		
15V22EC028	20	20	40	18	12	30	15		20	20	20	55	25	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.3	25.5	67.5	31 5	50.5	24	72.857143	90	90	53,15789	96		
1SV22EC029	19	19	38	1/	20	3/	12		20	14	17	34	24	2.5	2.5	2.3	2.5	5	5	6	6	27.5	37.5	25.5	44.5	23	78.571429	50	72.85714	46.84211	92		
15V22EC030	15	14	29	15	9	24	12	20		19	17	48	23	2.5	2.5	2.3	2.5	6 75	6.75	6.75	6 75	28.25	49 25	20.25	69.25	25	80,714286	65.66667	57.85714	72.89474	100		
15V22EC031	20	20	40	20	20	40	-	20		20	20	50	23	2.5	2.5	2.5	2.5	6.75	6.75	6.75	6.25	28.75	48.75	28.75	68.75	24	82.142857	65	82.14286	72.36842	96		
1SV22EC032	20	20	40	20	20	40	-	20		20	20	60	24	2.3	2.5	2.5	2.5	9.25	9.25	9.25	9.25	31.75	51.75	31.75	70.75	25	90,714286	69	90.71429	74.47368	100		
15/222033	17	18	35	20	20	40		20	16	15	19	50	25	2.5	2.5	2.5	2.5	7	7	7	7	24.5	63.5	28.5	46.5	25	70	84.66667	81.42857	48.94737	100		
15/226034	17	14	33	20	20	40	1	-	20	19	18	57	24	2.5	2.5	2.5	2.5	5	5	5	5	26.5	61.5	25.5	44.5	24	75.714286	82	72.85714	46.84211	96		
15/226035	11	0	20	14	9	23			20	20	19	59	25	2.5	2.5	2.5	2.5	1.75	1.75	1.75	1.75	24.25	47.25	23.25	24.25	25	69.285714	63	66.42857	25.52632	100		
15/2220030	18	20	38	20	20	40		-	20	20	20	60	25	2.5	2.5	2.5	2.5	5.25	5.25	5.25	5.25	27.75	67.75	27.75	45.75	. 25	79.285714	90.33333	79.28571	48.15789	100		
157226037	18	18	36	20	20	40		20	20	20	20	60	25	2.5	2.5	2.5	2.5	4.75	4.75	4.75	4.75	27.25	45.25	27.25	65.25	25	77.857143	60.33333	77.85714	68.68421	100		
157226038	9	19	28	19	20	39		1	14	20	20	54	24	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.5	27	59	27	36	24	77.142857	78.66667	77.14286	37.89474	96		
15V22EC039	18	19	37	20	20	40		20		20	20	60	25	2.5	2.5	2.5	2.5	6.5	6.5	6.5	6.5	29	48	29	67	25	82.857143	64	82.85714	70.52632	100		
15V22EC045	20	20	40	20	20	40	1	1	20	20	20	60	25	2.5	2.5	2.5	2.5	8.75	8.75	8.75	8.75	31.25	71.25	31.25	51.25	25	89.285714	95	89.28571	53.94737	100		
15V22EC042	• 18	16	34	18	0	18			20	14	20	54	• 15	2.5	2.5	2.5	2.5	1.25	1.25	1.25	1.25	17.75	57.75	23.75	21.75	15	50.714286	77	67.85714	22.89474	. 60		
15V22EC043	20	20	40	20	20	40	20			20	20	60	25	2.5	2.5	2.5	2.5	5	5	5	5	27.5	47.5	27.5	67.5	25	78.571429	63.33333	78.57143	71.05263	100		
15V22EC045	20	20	40	18	17	35	20	1.1.1		18	0	38	25	2.5	2.5	2.5	2.5	5.25	5.25	5.25	5.25	25.75	45.75	7.75	64.75	25	73.571429	61	22.14286	68.15789	100		
15V22EC045	9	20	29	20	20	40	20			20	20	60	25	2.5	2.5	2.5	2.5	5	5	5	5	27.5	47.5	27.5	56.5	25	78.571429	63.33333	78.57143	59.47368	100		
15V22EC047	19	19	38	20	20	40	1	1	20	0	0	20	25	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.5	5 7	66	7	46	25	20	88	20	48.42105	100		
15V22EE001	12	20	32	3	8	11		5		8	11	24	22	2.5	2.5	2.5	2.5	0.75	0.75	0.75	0.75	5 11.25	26.25	14.25	28.25	22	32.142857	35	40.71429	29.73684	88		
15V22EE002	15	12	27	12	5	17	11	-	1000	14	0	25	24	2.5	2.5	2.5	2.5	2.25	2.25	2.25	2.25	18.75	28.75	4.75	35.75	24	53.571429	38.33333	13.57143	37.63158	96		
15V22FE003	20	20	40	20	20	40		1	20	20	18	58	25	2.5	2.5	2.5	2.5	7.75	7.75	7.75	7.75	30.25	70.25	28.25	50.25	25	86.428571	93.66667	80.71429	52.89474	100		
15V22FF004	20	20	40	20	20	40	15	1		20	14	49	24	2.5	2.5	2.5	2.5	8	8	8	8	30.5	50.5	24.5	65.5	24	87.142857	67.33333	70	68.94737	96		
15V22EE005	17	13	30	20	20	40	20			20	20	60	25	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.5	5 27	40	27	64	25	77.142857	53.33333	77.14286	67.36842	100		
15V22EE006	12	10	22	20	20	40	1	1	20	18	17	55	25	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	5 24	56	23	38	25	68.571429	74.66667	65.71429	40	100		
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