

# CHATRAPATHI SIVAJI TRI SATA JAYANTHI GOVT. KALASALA



*Enter to Learn - Leave to Serve*

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## COs & POs ATTAINMENT FOR PHYSICS

Academic Year: 2020-2024, Semester-1

Programme: B.Sc., M.P.C, Course: Mechanics, Waves & Oscillations

CO ATTAINMENT			
	DA	IA	CO
CO1	2.50	2.60	2.52
CO2	2.42	2.53	2.45
CO3	2.50	2.60	2.52
CO4	2.45	2.60	2.48
CO5	2.38	2.47	2.40

### Attainment of POs/PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.47	1.98	1.98	1.81	2.14	2.14	2.14	1.81	1.81	1.81
<b>Program Exit Survey (B)</b>	2.90	2.70	2.80	2.90	2.60	2.80	2.90	2.70	2.80	2.6
<b>Employer Survey (C)</b>	2.65	2.90	2.90	2.60	2.50	2.90	2.70	2.80	2.70	2.7
<b>Alumni Survey (D)</b>	2.87	2.80	2.70	2.80	2.90	3.00	2.90	2.70	2.50	2.4
<b>Indirect PO Attainment E = (0.1*B)+(0.1*C)+ (0.1*D)</b>	0.842	0.84	0.84	0.83	0.8	0.87	0.85	0.82	0.8	0.77
<b>PO Attainment (F = (0.7*A)+E)</b>	2.467	2.097	1.982	1.728	1.661	1.748	1.735	1.733	2.016	1.994

Academic Year: 2020-2024, Semester-1  
 Programme: B.Sc., M.P.Cs, Course: Mechanics, Waves & Oscillations

<b>CO ATTAINMENT</b>			
	DA	IA	CO
CO1	2.48	2.60	2.50
CO2	2.40	2.53	2.43
CO3	2.50	2.60	2.52
CO4	2.44	2.60	2.47
CO5	2.36	2.47	2.38

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.47	1.98	1.98	1.81	2.14	2.14	2.14	1.81	1.81	1.81
<b>Program Exit Survey (B)</b>	2.90	2.70	2.80	2.90	2.60	2.80	2.90	2.70	2.80	2.6
<b>Employer Survey (C)</b>	2.65	2.90	2.90	2.60	2.50	2.90	2.70	2.80	2.70	2.7
<b>Alumni Survey (D)</b>	2.87	2.80	2.70	2.80	2.90	3.00	2.90	2.70	2.50	2.4
<b>Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)</b>	0.842	0.84	0.84	0.83	0.8	0.87	0.85	0.82	0.8	0.77
<b>PO Attainment (F = (0.7*A)+E)</b>	2.467	2.097	1.982	1.728	1.661	1.748	1.735	1.733	2.016	1.994

Academic Year: 2020-2024, Semester-2  
 Programme: B.Sc., M.P.Cs, Course: Wave Optics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.46	2.60	2.49
CO2	2.40	2.53	2.43
CO3	2.45	2.60	2.48
CO4	2.48	2.60	2.50
CO5	2.38	2.47	2.40

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
<b>Program Exit Survey (B)</b>	2.80	2.90	2.60	2.70	2.60	2.70	2.90	2.80	3.10	2.6
<b>Employer Survey (C)</b>	2.70	2.70	2.60	2.50	2.60	2.80	2.90	2.60	2.70	2.7
<b>Alumni Survey (D)</b>	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
<b>Indirect PO Attainment E = (0.1*B) +(0.1*C) + (0.1*D)</b>	0.82	0.84	0.81	0.81	0.79	0.83	0.85	0.81	0.87	0.82
<b>PO Attainment (F = (0.7*A)+E)</b>	2.257	1.950	1.855	1.990	1.938	1.988	2.070	1.951	2.307	1.930

Academic Year: 2020-2024, Semester-2  
 Programme: B.Sc., M.P.C, Course: Wave Optics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.46	2.60	2.49
CO2	2.40	2.53	2.43
CO3	2.45	2.60	2.48
CO4	2.48	2.60	2.50
CO5	2.38	2.47	2.40

Attainment of POs/PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
Direct Attainment (A)	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
Program Exit Survey (B)	2.60	2.80	2.60	2.90	2.60	2.70	2.60	2.80	2.80	2.9
Employer Survey (C)	2.60	2.70	2.80	2.50	2.70	2.70	3.20	2.80	2.90	2.7
Alumni Survey (D)	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.50	2.4
Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)	0.79	0.83	0.83	0.83	0.80	0.82	0.85	0.83	0.82	0.80
PO Attainment (F = (0.7*A)+E)	2.227	1.940	1.875	2.010	1.948	1.9855	2.070	1.971	2.257	1.910

Academic Year: 2020-2024, Semester-3  
 Programme: B.Sc., M.P.Cs, Course: Heat & Thermodynamics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.49	2.60	2.51
CO2	2.43	2.53	2.45
CO3	2.46	2.60	2.49
CO4	2.47	2.60	2.50
CO5	2.39	2.47	2.40

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
<b>Program Exit Survey (B)</b>	2.60	2.90	2.60	2.80	2.60	2.70	2.90	3.00	2.50	2.8
<b>Employer Survey (C)</b>	2.50	2.60	2.70	2.60	2.70	2.50	2.50	2.70	2.60	2.7
<b>Alumni Survey (D)</b>	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
<b>Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)</b>	0.78	0.83	0.82	0.83	0.80	0.80	0.81	0.84	0.80	0.84
<b>PO Attainment (F = (0.7*A)+E)</b>	2.217	1.940	1.865	2.010	1.948	1.965	2.030	1.951	2.237	1.950

Academic Year: 2020-2024, Semester-3  
 Programme: B.Sc., M.P.C, Course: Heat & Thermodynamics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.47	2.60	2.49
CO2	2.43	2.53	2.45
CO3	2.44	2.60	2.47
CO4	2.48	2.60	2.51
CO5	2.40	2.47	2.41

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
Direct Attainment (A)	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
Program Exit Survey (B)	2.70	2.90	2.70	2.80	2.70	2.80	2.60	2.50	2.70	2.9
Employer Survey (C)	2.50	2.60	2.70	2.80	2.70	2.50	2.70	2.60	2.50	2.7
Alumni Survey (D)	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.50	2.4
Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)	0.79	0.83	0.83	0.85	0.74	0.81	0.80	0.78	0.77	0.78
PO Attainment (F = (0.7*A)+E)	2.227	1.940	1.875	2.030	1.888	1.975	2.020	1.921	2.205	1.890

Academic Year: 2020-2024, Semester-4  
 Programme: B.Sc., M.P.Cs, Course: Electricity, Magnetism & Electronics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.50	2.60	2.52
CO2	2.42	2.53	2.44
CO3	2.44	2.60	2.48
CO4	2.46	2.60	2.49
CO5	2.39	2.47	2.40

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
Direct Attainment (A)	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
Program Exit Survey (B)	2.60	2.70	2.90	2.90	2.60	2.70	2.80	3.00	2.90	2.7
Employer Survey (C)	2.50	2.60	2.70	2.60	2.70	2.50	2.50	2.70	2.60	2.7
Alumni Survey (D)	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)	0.78	0.81	0.85	0.84	0.80	0.80	0.80	0.84	0.84	0.83
PO Attainment (F = (0.7*A)+E)	2.217	1.960	1.895	2.020	1.948	1.965	2.020	1.75	2.277	1.940

Academic Year: 2020-2024, Semester-4  
 Programme: B.Sc., M.P.C, Course: Electricity, Magnetism & Electronics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.48	2.60	2.51
CO2	2.43	2.53	2.45
CO3	2.44	2.60	2.47
CO4	2.43	2.60	2.47
CO5	2.38	2.47	2.40

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
Direct Attainment (A)	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
Program Exit Survey (B)	2.70	2.90	2.70	2.80	2.70	2.80	2.60	2.50	2.70	2.9
Employer Survey (C)	2.70	2.60	2.80	2.60	2.90	2.50	2.50	2.60	2.60	2.7
Alumni Survey (D)	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
Indirect PO Attainment E = (0.1*B) +(0.1*C) + (0.1*D)	0.81	0.83	0.84	0.83	0.83	0.81	0.78	0.78	0.80	0.85
PO Attainment (F = (0.7*A)+E)	2.247	1.940	1.885	2.010	1.978	1.975	2.000	1.921	2.237	1.960



Academic Year: 2020-2024, Semester-4  
 Programme: B.Sc., M.P.Cs, Course: Modern Physics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.47	2.60	2.50
CO2	2.39	2.53	2.42
CO3	2.44	2.60	2.48
CO4	2.44	2.60	2.48
CO5	2.36	2.47	2.38

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
<b>Program Exit Survey (B)</b>	2.60	2.60	2.70	2.90	2.90	2.60	2.70	2.80	2.90	2.8
<b>Employer Survey (C)</b>	2.50	2.60	2.70	2.80	2.70	2.50	2.70	2.60	2.50	2.7
<b>Alumni Survey (D)</b>	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
<b>Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)</b>	0.78	0.80	0.83	0.86	0.83	0.79	0.81	0.80	0.83	0.84
<b>PO Attainment (F = (0.7*A)+E)</b>	2.217	1.910	1.345	1.875	1.978	1.955	2.030	1.941	2.267	1.950

Academic Year: 2020-2024, Semester-4  
 Programme: B.Sc., M.P.C, Course: Modern Physics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.47	2.60	2.49
CO2	2.41	2.53	2.44
CO3	2.44	2.60	2.47
CO4	2.45	2.60	2.48
CO5	2.38	2.47	2.40

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
<b>Program Exit Survey (B)</b>	2.70	2.90	2.50	2.70	2.80	2.90	2.90	2.50	2.70	2.6
<b>Employer Survey (C)</b>	2.50	2.60	2.70	2.60	2.70	2.50	2.50	2.70	2.60	2.7
<b>Alumni Survey (D)</b>	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
<b>Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)</b>	0.79	0.83	0.81	0.82	0.82	0.82	0.81	0.79	0.82	0.82
<b>PO Attainment (F = (0.7*A)+E)</b>	2.227	1.940	1.885	2.000	1.968	1.985	2.041	1.931	2.257	1.930

Academic Year: 2020-2024, Semester-5  
 Programme: B.Sc., M.P.Cs, Course: Applications of Electricity & Electronics

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.47	2.60	2.50
CO2	2.39	2.53	2.42
CO3	2.44	2.60	2.48
CO4	2.44	2.60	2.48
CO5	2.36	2.47	2.38

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
<b>Program Exit Survey (B)</b>	2.60	2.60	2.70	2.90	2.90	2.60	2.70	2.80	2.90	2.8
<b>Employer Survey (C)</b>	2.60	2.70	2.80	2.50	2.70	2.70	3.20	2.80	2.90	2.7
<b>Alumni Survey (D)</b>	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
<b>Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)</b>	0.79	0.81	0.84	0.83	0.83	0.81	0.86	0.83	0.87	0.84
<b>PO Attainment (F = (0.7*A)+E)</b>	2.227	1.920	1.885	2.010	1.978	1.975	2.080	1.971	2.307	1.950

Academic Year: 2020-2024, Semester-5

Programme: B.Sc., M.P.C, Course: Applications of Electricity & Electronics

COs ATTAINMENT			
	DA	IA	CO
CO1	2.47	2.60	2.49
CO2	2.41	2.53	2.44
CO3	2.44	2.60	2.47
CO4	2.45	2.60	2.48
CO5	2.38	2.47	2.40

Attainment of POs/PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
<b>Direct Attainment (A)</b>	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
<b>Program Exit Survey (B)</b>	2.70	2.90	2.50	2.70	2.80	2.90	2.90	2.50	2.70	2.6
<b>Employer Survey (C)</b>	2.50	2.60	2.70	2.60	2.70	2.50	2.50	2.70	2.60	2.7
<b>Alumni Survey (D)</b>	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
<b>Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)</b>	0.79	0.83	0.81	0.82	0.82	0.82	0.81	0.79	0.82	0.82
<b>PO Attainment (F = (0.7*A)+E)</b>	2.227	1.940	1.885	2.000	1.968	1.985	2.041	1.931	2.257	1.930

Academic Year: 2020-2024, Semester-5  
 Programme: B.Sc., M.P.Cs, Course: Electronic Instrumentation

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.47	2.60	2.49
CO2	2.41	2.53	2.44
CO3	2.44	2.60	2.47
CO4	2.45	2.60	2.48
CO5	2.38	2.47	2.40

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
Direct Attainment (A)	2.053	1.587	1.494	1.687	1.641	1.665	1.743	1.630	2.053	1.587
Program Exit Survey (B)	2.80	2.90	2.60	2.70	2.60	2.70	2.90	2.80	3.10	2.6
Employer Survey (C)	2.70	2.70	2.60	2.50	2.60	2.80	2.90	2.60	2.70	2.7
Alumni Survey (D)	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
Indirect PO Attainment E = (0.1*B) + (0.1*C) + (0.1*D)	0.82	0.84	0.81	0.81	0.79	0.83	0.85	0.81	0.87	0.82
PO Attainment (F = (0.7*A)+E)	2.257	1.950	1.855	1.990	1.938	1.995	2.070	1.951	2.307	1.930

Academic Year: 2020-2024, Semester-5  
 Programme: B.Sc., M.P.C, Course: Electronic Instrumentation

<b>COs ATTAINMENT</b>			
	DA	IA	CO
CO1	2.47	2.60	2.49
CO2	2.41	2.52	2.45
CO3	2.45	2.60	2.47
CO4	2.44	2.60	2.48
CO5	2.38	2.46	2.41

**Attainment of POs/PSOs**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
Direct Attainment (A)	2.053	1.586	1.494	1.687	1.641	1.665	1.742	1.630	2.053	1.587
Program Exit Survey (B)	2.80	2.90	2.60	2.70	2.60	2.70	2.90	2.80	3.10	2.6
Employer Survey (C)	2.70	2.70	2.60	2.50	2.60	2.80	2.90	2.60	2.70	2.7
Alumni Survey (D)	2.70	2.80	2.90	2.90	2.70	2.80	2.70	2.70	2.90	2.9
Indirect PO Attainment E = (0.1*B) +(0.1*C) + (0.1*D)	0.82	0.84	0.81	0.81	0.79	0.83	0.85	0.81	0.87	0.82
PO Attainment (F = (0.7*A)+E)	2.257	1.950	1.850	1.990	1.938	1.995	2.070	1.951	2.306	1.930