

J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post, Pudukkottai

2.3.2 Details of ICT Enabled Teaching Resources

Department : PHYSICS

Academic Year : 2023 - 2024

Name of the Staff : Dr. M.K. MURALI

Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	19/6/23	II msc	Advanced physics	Fundamentals of laser	PPT
2	10/7/23	II m-sc	Advanced Physics	characteristic of laser	PPT
3	19/7/23	II m-sc	Advanced Physics	Types of laser	PPT
4	31/8/23	II m-sc	Advanced Physics	semiconductor laser	E-Content
5	31/7/23	I msc	Advanced optics	Construction & working of He-Ne laser.	E-Content
6	10/8/23	I msc	Advanced optics	optical fibre.	PPT
7	21.8.23	I m-sc	Advanced optics	Types of fibre optics	PPT
8	6/10/23	I. msc	Advanced optics	NA of fibre optics	E-Content
				Application of fibre optics	PPT



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Signature of the Staff

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
 HEAD AND ASSISTANT PROFESSOR,
 P.G. AND RESEARCH DEPARTMENT OF PHYSICS
 J.J. COLLEGE OF ARTS AND SCIENCE (AU)
 J.J. NAGAR, SIVAPURAM,
 PUDUKKOTTAI - 622 422

Th

Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
 HEAD AND ASSISTANT PROFESSOR,
 P.G. AND RESEARCH DEPARTMENT OF PHYSICS
 J.J. COLLEGE OF ARTS AND SCIENCE (AU)
 J.J. NAGAR, SIVAPURAM,
 PUDUKKOTTAI - 622 422

G. Par

Principal

Dr. J. PARASURAMAN, M.B.A., MCA,
 M.Phil., B.Ed., Ph.D.
PRINCIPAL
 J.J. College of Arts and Science (Autonomous)
 J.J. Nagar, Sivapuram Post,
 PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : Physics

Academic Year : 2023 - 2024

Name of the Staff : Dr. M.K. Murali

Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	18/12/23	III. B.Sc	C. programming	C. structure.	ppt
2	21/12/23	III. B.Sc	C. programming	constant variables.	PPT
3	29/12/23	III. B.Sc	C. programming	operators.	PPT
4	24/1/24	III. B.Sc	C. programming Arrays	Arrays & pointer	PPT
5	14/2/24	III. B.Sc	C. programming	Solving Simple problem	E. Padabalai
6	5/1/24	I. m-sc	Analog & Digital Electronics	Ideal op-amp character	E. Padabalai
7	9/1/24	I. m-sc	Analog & Digital Electronics	Binary weighted network.	PPT
8	10/1/24	I. m-sc	Analog & Digital Electronics	Solving differential eqn.	PPT



M.K. Murali

Signature of the Staff

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
O.G. AND RESEARCH DEPARTMENT OF PHYSICS,
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM;
PUDUKKOTTAI - 622 422

M.K. Murali

Head of the Department
Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
O.G. AND RESEARCH DEPARTMENT OF PHYSICS,
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422

P. Parasuraman

Principal
Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
M.Phil., B.Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : Physics
Name of the Staff : Dr. K. DHANABALAN

Academic Year : 2023 - 2024
Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1.	07/07/23	M.Sc.	Spectroscopy	vibrating energy of a diatomic molecule	PPT
2.	13/07/23	M.Sc.	Spectroscopy	vibrations of polyatomic molecule	PPT
3.	02/08/23	M.Sc.	Spectroscopy	Rotation of polyatomic molecule	PPT
4.	18/08/23	M.Sc.	Spectroscopy	Technique and instrumentation	E-Content
5.	05/09/23	M.Sc.	Spectroscopy	Sample Handling technique	PPT
6.	26/09/23	M.Sc.	Spectroscopy	Raman Spectrometry	PPT
7.	21/06/23	B.Sc.	Atomic and nuclear physics	Milliken's oil drop method	PPT
8.	06/07/23	B.Sc.	Atomic and nuclear physics	Thomson's parabola	PPT
9.	13/07/23	B.Sc.	Atomic and nuclear physics	Frank and Hertz experiment	PPT
10.	19/07/23	B.Sc.	Atomic and nuclear physics	Davison and Germer method	PPT
	31/08/23	B.Sc.	Atomic and nuclear physics	Coupling scheme	PPT
	12/09/23	B.Sc.	Atomic and nuclear physics	Zeeman effect	PPT



K. Dhana

Signature of the Staff

M.K. Murali

Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
G. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422

P. Parasuraman
Principal

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
M.P.N.I., B.Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : Physics

Academic Year : 2023 - 2024

Name of the Staff : Dr. K. DHANABALAN

Semester : Odd / Even ✓

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1.	12/12/23	M.Sc.	Statistical Mechanics	Phase Transitions	PPT
2.	04/01/24	M.Sc.	Statistical Mechanics	Ehrenfest's classification	PPT
3.	11/01/24	M.Sc.	Statistical Mechanics	Third law of thermodynamics	PPT
4.	22/01/24	M.Sc.	Statistical Mechanics	Landau's theory	PPT
5.	12/02/24	M.Sc.	Statistical Mechanics	Foundation of Statistical mechanics	E-Content
6.	07/03/24	M.Sc.	Statistical Mechanics (Liouville's theorem)	Liouville's theorem	PPT
7.	13/12/23	B.Sc.	Elements of theoretical physics	Constraints	PPT
8.	20/12/23	B.Sc.	Elements of theoretical physics	Applications of Lagrangian equations	PPT
9.	22/01/24	B.Sc.	Elements of theoretical physics	Conservation theorems for generalized momentum	PPT
10.	12/02/24	B.Sc.	Elements of theoretical physics	De Broglie wavelength	PPT
11.	14/03/24	B.Sc.	Elements of theoretical physics	Relation b/t group velocity and phase velocity	PPT
12.	14/03/24	B.Sc.	Elements of theoretical physics	Grp. Thomson's eqn. for verifying de Broglie relation	PPT

K. Dhanabalan

Signature of the Staff

T. K. S.

Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
*G. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422

J. Parasuraman

Principal

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A., M.Phil., Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : physics

Academic Year : 2023 - 2024

Name of the Staff : Dr. S. Sivasakthi

Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	12.12.23	I M.Sc (phy)	Quantum mechanics-I	Time dependent Schrodinger Equation	ppt.
2	14.12.23	II. B.Sc (cs)	Allied Applied physics -II	Ruby Laser & Applications	ppt.
3	11.12.23	II. M.Sc (phy)	Nanoscience and Technology	Defination of nano Systems.	e-padasala
4	08.01.24	I. M.Sc (phy)	Quantum mechanics-I	Hermitian operator	e-padasala
5	28.12.23	II. B.Sc (cs)	Allied Applied physics -II	Semiconductor. N-type P-type	ppt
6	14.12.23	II. M.Sc (phy)	Nanoscience and Technology	Carbon Nano tubes metal Nanoparticles	ppt
7	24.01.24	I. M.Sc (phy)	Quantum mechanics-I	Stark effect in Hydrogen atom	ppt.
8	12.01.24	II. B.Sc (cs)	Allied Applied physics -III	Transistor PNP, NPN transistor	e-padasala
9	10.01.24	II. M.Sc (phy)	Nanoscience and Technology	Semiconductor nanoparticles	ppt.
10	20.02.24	I. M.Sc (phy)	Quantum Mechanics-I	Symmetry and Anti Symmetry of wavefunction	e-padasala
11		II. B.Sc (cs)	Allied Applied physics -III	Integrator, Differentiators.	ppt.
12		II. M.Sc (phy)	Nanoscience and Technology	Biological System DNA, Lipids	ppt.

(b). Gakthi
Signature of the Staff

Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D
HEAD AND ASSISTANT PROFESSOR,
G. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM.
PUDUKKOTTAI - 622 422

Principal

Dr. J. PARASURAMAN, M.A.M.B.A., M.C.A., M.Phil., Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422

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2.3.2 Details of ICT Enabled Teaching Resources

Department : physics

Academic Year : 2023 - 2024

Name of the Staff : Dr. S. Sivasakthi

Semester : Odd/Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	23.06.23	II-M.Sc (phy)	Nuclear and elementary particle physics.	Exchange forces in Nuclear Forces	ppt
2	19.06.23	II-B.Sc (CS)	Applied applied physics-I	Coulomb's law	ppt
3	16.08.23	I-M.Sc (phy)	physics of Nano Science and Technology.	physical properties of Nano materials.	ppt
4	24/07/23	II-M.Sc (phy)	Nuclear and elementary particle physics	Bohr - wheelon Theory of fission	e- padasala
5	01.08.23	B.Sc (CS)	Applied applied physics-I	Hysteresis, B-H curve application	ppt
6	05.10.23	I-M.Sc (phy)	physics of Nano Science and Technology.	physical vapour deposition.	e- padasala
7	29.08.23	II-M.Sc (phy)	Nuclear and elementary particles physics.	Gamma decay	e- padasala
8	10.08.23	B.Sc (CS)	Applied applied physics-I	Theory of Ballistic galvanometer	ppt.
9	04.11.23	I-M.Sc (phy)	physics of Nano Science and Technology.	Nanolithography	ppt.
10	11.10.23	II-M.Sc (phy)	Nuclear and elementary particle physics.	Elementary Concepts of weak interaction.	e- padasala
11	20.10.23	B.Sc (CS)	Applied applied physics-I	Diagnoses of resonant circuits.	e- padasala
12	20.01.24	I-M.Sc (phy)	physics of Nano Science and Technology.	Medicine imaging of Cancer cells	ppt.

D. Sakthi

Signature of the Staff

H. M. S.

Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D
HEAD AND ASSISTANT PROFESSOR,
96. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422

Dr. J. Parashuraman

Principal
Dr. J. PARASURAMAN, M.A.M.B.A.MCA,
M.Phil., Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : physics

Academic Year : 2023 - 2024

Name of the Staff : P. PARAMESWARAR

Semester : ☒ Odd / ☐ Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	31/7/23	I m.sc physics	classical mechanics	D'Alembert's principle	PPT
2	10/8/23	I m.sc physics	classical mechanics	simple pendulum	PPT
3	21/8/23	I m.sc physics	classical mechanics	projectile motion	E-padasalai
4	6/10/23	I m.sc physics	classical mechanics	minkowski's space	PPT
5	19/6/23	III Bsc physics	optics	Aberrations	PPT
6	10/7/23	IV Bsc physics	optics	Huygen's eyepiece	E-padasalai
7	19/7/23	III Bsc physics	optics	Resolving power	PPT
8	3/8/23	III Bsc physics	optics	Nicol prism	PPT
9	27/6/23	II Bsc maths & chemistry	Allied physics I	Bending of Beams	PPT
10	26/7/23	II Bsc maths & chemistry	Allied physics I	Bernoulli's Theorem	E-padasalai
	1/23	II Bsc maths & chemistry	Allied physics I	Solar Constant	PPT
12	22/9/23	II Bsc maths & chemistry	Allied physics I	Carnot's Engine	PPT

P. Parameswarar
Signature of the Staff

TGUL
Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
O.G. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422


Principal

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
M.P.N.I.L.B.E.D., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

J.J. College of Arts and Science (Autonomous)

J.J. Nagar, Sivapuram Post, Pudukkottai

2.3.2 Details of ICT Enabled Teaching Resources

Department : physics

Academic Year : 2023 - 2024

Name of the Staff : P. PARAMESWAR

Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	11/12/23	II Bsc maths & chemistry	Allied physics III	Number system	PPT
2	23/1/24	II Bsc maths & chemistry	Allied physics III	De Morgan's Theorem	PPT
3	15/2/24	II Bsc maths & chemistry	Allied physics III	potentiometer	E-padasalai
4	18/12/24	I msc physics	Quantum mechanics I	square well with potential finite walls	PPT
5	9/1/24	I msc physics	Quantum mechanics I	Alpha Emission	E-padasalai
6	12/3/24	I msc physics	Quantum mechanics I	Spin Angular momentum	PPT
7	12/12/23	II Bsc physics	Laser physics	Absorption	PPT
8	3/1/24	II Bsc physics	Laser physics	Pumping	PPT
9	22/1/24	II Bsc physics	Laser physics	He - ne Laser	E-padasalai
10	16/2/24	II Bsc physics	Laser physics	Laser cutting	PPT
11	6/3/24	II Bsc physics	Laser physics	Laser in surgery	PPT
	22/1/24	I msc physics	Quantum mechanics I	Linear Harmonic oscillator	PPT



p. parameswar
Signature of the Staff

T.P. 2

Head of the Department
Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
O.G. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AUT)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422

Principal
Dr. J. PARASURAMAN, M.A.M.B.A., M.C.A., M.Phil., B.Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : Physics
Name of the Staff : DHANACHAYAN

Academic Year : 2023 - 2024
Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	19.6.23	II. M.Sc Physics	Condensed Matter Physics	Meissner effect	PPT
2	20.6.23	II M.Sc Physics	Condensed Matter Physics	Type I and Type II Superconductor	E-padasalai
3	5.7.23	II M.Sc Physics	Condensed Matter Physics	Anti ferro magnetic material	PPT
4	6.7.23	II M.Sc Physics	Condensed Matter Physics	Quantum tunnelling	PPT
5	4.8.23	II M.Sc Physics	Condensed Matter Physics	Classical dia and Para	PPT
6	23.8.23	II M.Sc Physics	Condensed Matter Physics	X-ray Powder Crystal method	PPT
7	28.6.23	III. B.Sc Physics	Solid State Physics	Superconducting material	E-padasalai
8	11.7.23	III B.Sc Physics	Solid State Physics	Ionic and Covalent difference	E-padasalai
9	3.8.23	III. B.Sc Physics	Solid State Physics	Fibre optics	E-padasalai
10	5.9.23	III. B.Sc Physics	Solid State Physics	Miller indices	PPT
	10.10.23	III. B.Sc Physics	Solid State Physics	Crystal systems	PPT
12	7.10.23	III B.Sc Physics	Solid State Physics	Metallurgical glass and its application	PPT


Signature of the Staff

T. H. 25
Head of the Department
Dr. M. K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR
SG. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422


Principal
Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
M.Phil., B.Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : Physics

Academic Year : 2023 - 2024

Name of the Staff : DHANACHARAN

Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1	14.12.23	III B.Sc Physics	Physics for Electrical home Appliances	Multimeter	PPT
2	5.1.24	III B.Sc Physics	Physics for Electrical home Appliances	Capacitor	E-PadaSalai
3	23.1.24	III B.Sc Physics	Physics for Electrical home Appliances	Solar power	PPT
4	18.2.24	III B.Sc Physics	Physics for Electrical home Appliances	Transformer	PPT
5	14.2.24	III B.Sc Physics	Physics for Electrical home Appliances	Types of Carrying avoid electric shock	E-PadaSalai
6	6.3.24	III B.Sc Physics	Physics for Electrical home Appliances	Circuit Breaker	PPT
7	29.12.24	I B.Sc Physics	Physics for everyday life	Laser	E-PadaSalai
8	1.2.24	I B.Sc Physics	Physics for everyday life	Polaroid camera	PPT
9	6.2.24	I B.Sc Physics	Physics for everyday life	Vacuum cleaner	PPT
10	19.2.24	I B.Sc Physics	Physics for everyday life	UV Protective Goggles Solar Energy	PPT
11	3.24	I B.Sc Physics	Physics for everyday life	Application of solar energy	PPT
12	6.3.24	I B.Sc Physics	Physics for everyday life	Voltic Cell	PPT



S. Dhana
Signature of the Staff

M. K. Murali

Head of the Department
Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
G. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM,
PUDUKKOTTAI - 622 422

P. Parasuraman
Principal
Dr. J. PARASURAMAN, M.A.M.B.A., M.C.A., M.Phil., Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
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2.3.2 Details of ICT Enabled Teaching Resources

Department : PHYSICS

Academic Year : 2023 - 2024

Name of the Staff : SENTHILKUMAR . G

Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1.	14-12-2023	II BSC Physics	Analog Electronics	Semiconductors	PPT
2.	8-1-2024	II BSC Physics	Analog Electronics	Zener diode	PPT
3.	10-1-2024	II BSC Physics	Analog Electronics	Amplifiers	E - Padasala
4.	2-2-2024	II BSC Physics	Analog Electronics	Oscillators	E - Padasala
5.	6-3-2024	II BSC Physics	Analog Electronics	VST	PPT
6.	26-3-2024	II BSC Physics	Analog Electronics	Photo - diode	PPT.
7.	19-12-2024	III BSC Physics	Microprocessor 8085	8085 - Architecture	PPT
8.	11-01-2024	III BSC Physics	Microprocessor 8085	8085 - Registers	PPT
9.	30-01-2024	III BSC Physics	Microprocessor 8085	Timing Diagram	E - Padasala
10.	14-2-2024	III BSC Physics	Microprocessor 8085	Microprocessor Programmes.	E - Padasala
11.	22-2-2024	III BSC Physics	Microprocessor 8085	7-segment display	PPT
12.	2-3-2024	III BSC Physics	Microprocessor 8085	Water Level Indicator	PPT

Signature of the Staff

Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
HEAD AND ASSISTANT PROFESSOR,
PG. AND RESEARCH DEPARTMENT OF PHYSICS
J.J. COLLEGE OF ARTS AND SCIENCE (AU)
J.J. NAGAR, SIVAPURAM.
PUDUKKOTTAI - 622 422

Principal

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
M.Phil., B.Ed., Ph.D.
PRINCIPAL
J.J. College of Arts and Science (Autonomous)
J.J. Nagar, Sivapuram Post,
PUDUKKOTTAI - 622 422.

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2.3.2 Details of ICT Enabled Teaching Resources

Department : PHYSICS

Academic Year : 2023 - 2024

Name of the Staff : SENSIL KUMAR G

Semester : Odd / Even

Sl. No.	Date	Class	Course Title	Topic	Type of ICT Tool(s) used
1.	03-7-2023	II BSC Physics	Electricity & magnetism	Biot - Savart's law	PPT
2.	14-7-2023	II BSC Physics	Electricity & magnetism	Carey Foster Bridge	PPT
3.	24-7-2023	II BSC Physics	Electricity & magnetism	Potential - meter	E - padasalai
4.	3-8-2023	II BSC Physics	Electricity & magnetism	De - Savart's Bridge	E - padasalai
5.	16-8-2023	II BSC Physics	Electricity & magnetism	Self - Induction	PPT
6.	25-9-2023	II BSC Physics	Electricity & magnetism	Mutual - Induction	PPT
7.	22-6-2023	III BSC Physics	Digital Electronics	Number System	PPT
8.	7-7-2023	III BSC Physics	Digital Electronics	K-map (2, 3 variables)	E - padasalai
9.	09-8-2023	III BSC Physics	Digital Electronics	Adders & Subtractors	E - padasalai
10.	24-8-2023	III BSC Physics	Digital Electronics	Multiplexer (4:1)	PPT
11.	8-9-2023	III BSC Physics	Digital Electronics	Flip flops	PPT
12.	17-10-2023	III BSC Physics	Digital Electronics	Semi conductor memories	PPT

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M.K. Murali

Head of the Department

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
 HEAD AND ASSISTANT PROFESSOR,
 G. AND RESEARCH DEPARTMENT OF PHYSICS
 J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
 J.J. NAGAR, SIVAPURAM,
 PUDUKKOTTAI - 622 422

J. Parasuraman
 Principal

Dr. J. PARASURAMAN, M.A., M.B.A., M.C., M.Phil., B.Ed., Ph.D.
PRINCIPAL
 J.J. College of Arts and Science (Autonomous)
 J.J. Nagar, Sivapuram Post,
 PUDUKKOTTAI - 622 422.