

J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
SIVAPURAM POST, PUDUKKOTTAI-622 422

DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: PHYSICS	Academic Year: 2020-2021
Name of the Staff: Dr. M.K. MURALI	Semester:

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.Sc	properties of Matter.	Viscosity of liquid - Streamline, turbulent flow 12-12-20	PPT
2.	B.Sc	Properties of Matter.	14.12.20 Derivation of poiseuille's formula.	PPT
3	B.Sc	properties of Matter.	25/12/20 correction of poiseuille's formula.	PPT
4	B.Sc	properties of Matter.	26/12/20 Viscosity of liquid - Variable pressure head.	PPT
5.	B.Sc	properties of Matter.	27/12/20 Viscosity of liquid - Constant pressure head.	PPT
6.	B.Sc	Basic Electronics.	19/1/21 operational amplifier	PPT
7.	B.Sc	Basic Electronics.	22/1/21 Ideal op-amp character	PPT
8	B.Sc	Basic Electronics	27/1/21 Expression for Inverting amplifier.	PPT
9	B.Sc	Basic Electronics.	9/2/21 Expression for non-inverting Amplifier.	PPT
10	B.Sc	Basic Electronics.	9/3/21 Application of op-Amp - Adder.	PPT

M.K.M
Signature of the Staff

M.K.M
Head of the Department

J.P
Principal



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.

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.
M.Phil., B.Ed., Ph.D.

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DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: PHYSICS	Academic Year: 2020-2021
Name of the Staff: Dr. K. DHANABALAN	Semester: odd & even

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.Sc.	Computer prog Language - C	02/01/21 : Arrays	PPT
2.	B.Sc.	Comp. prog, Language - C	11/2/21 : Functions	PPT
3.	B.Sc.	Comp. prog. Language - C	18/2/21 : Structures	PPT
4.	B.Sc.	Computer prog, Language - C	04/3/21 : pointers	PPT
5.	B.Sc.	Comp. prog. Language - C	12/3/21 : Basic functions	PPT
6.	B.Sc.	Comp. prog. Language - C	15/3/21 : unions	PPT
7.	B.Sc.	Applied physics - III	09/01/21 : Semiconductors (PN)	PPT
8.	B.Sc.	Applied physics - III	02/2/21 : Zener diode	PPT
9.	B.Sc.	Applied physics - III	12/2/21 : CB & CE Characteristics	PPT
10.	B.Sc.	Applied physics - III	18/3/21 : He-Ne laser	PPT
11.	B.Sc.	Applied physics - III	04/03/21 : LED Construction	PPT
12.	B.Sc.	Applied physics - III	05/03/21 : LCD Construction	PPT

K. Dhanabalan
Signature of the Staff

Head of the Department
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J. Parasuraman
Principal

Principal
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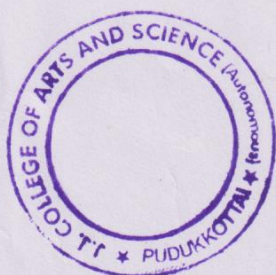
Department: physics	Academic Year: 2020-2021
Name of the Staff: P. PARAMESWAR	Semester: odd & Even

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1	I MSc	classical Dynamics and Relativity	7/12/20 - Euler's angle	PPT
2	II MSc	classical Dynamics and Relativity	14/12/20 - symmetrical top	PPT
3	II BSc	Allied physics I	15/12/20 - Centre of gravity of solid hemisphere	PPT
4	II BSc	Allied physics I	21/12/20 - Centre of gravity of solid cone	PPT
5	II BSc	Allied physics I	5/1/21 - Determination of a metacentric height of a ship	PPT
6	III BSc	optics	10/1/21 - Aberration	PPT
7	III BSc	optics	18/1/21 - Ramsden and Huygens eyepiece	PPT
8	III BSc	optics	7/2/21 - Nicol prism	PPT
9	II BSc	Allied physics III	12/2/21 - Liquid drop model	PPT
10	II BSc	Allied physics III	21/2/21 - Shell model	PPT
11	III BSc	Elements of theoretical physics	14/3/21 - mechanics of a particle	PPT
12	III BSc	Elements of theoretical physics	18/3/21 - Constraints	PPT

P. Parameswar
Signature of the Staff

D.S
Head of the Department

G. Parasuraman
Principal



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DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: PHYSICS	Academic Year: 2020 - 2021
Name of the Staff: MR. S. SASIKUMAR	Semester: Odd & Even

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.S.C	Biomedical Instrumentation	12.12.2020 : Bioelectric potentials	PPT
2.	B.S.C	Biomedical Instrumentation	25.12.2020 : Biopotential Electrodes	PPT
3.	B.S.C	Biomedical Instrumentation	29.01.2021 : Cardiovascular measurements	PPT
4.	B.S.C	Biomedical Instrumentation	04.02.2021 : Nervous measurements	PPT
5.	B.S.C	Biomedical Instrumentation	25.02.2021 : Ultrasound	PPT
6.	B.S.C	Biomedical Instrumentation	12.03.2021 : X-ray measurements	PPT
7.	M.S.C	Nanoscience & Nanotechnology	14.12.2020 : Background to Nanotechnology	PPT
8.	M.S.C	Nanoscience & Nanotechnology	26.12.2020 : Nucleation	PPT
9.	M.S.C	Nanoscience & Nanotechnology	30.01.2021 : Types of nanostructures	PPT
10.	M.S.C	Nanoscience & Nanotechnology	05.02.2021 : Nanomaterials and properties	PPT
11.	M.S.C	Nanoscience & Nanotechnology	26.02.2021 : Applications of Nanomaterials	PPT
12.	M.S.C	Nanoscience & Nanotechnology	14.03.2021 : Biological Applications	PPT

S. Sasikumar
Signature of the Staff

M.K. Murali
Head of the Department

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DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: <u>Physics</u>	Academic Year: <u>2020-21</u>
Name of the Staff: <u>Dr. S. Geetha</u>	Semester: <u>II, IV, VI</u>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.sc	Laser Physics	Basic concepts of laser 02/01/21	PPT
2.	B.sc	Laser and Spectroscopy	Ruby Laser 11/2/21	PPT
3.	B.sc	Laser and Spectroscopy	Lasers in medicine 18/2/21	PPT
4.	B.sc	Laser and Spectroscopy	CO ₂ Laser - 04/3/21	PPT
5.	B.sc	Laser and Spectroscopy	Optical fibre Communication 12/3/21	PPT
6.	M.sc	Electromagnetic Theory	Biot-Savart law 09/01/21	PPT
7.	M.sc	Electromagnetic Theory	Gauss law 02/2/21	PPT
8.	M.sc	Electromagnetic Theory	Coulomb's law 12/2/21	PPT
9.	M.sc	Electromagnetic Theory	Dielectrics and Polarisation 18/3/21	PPT
10.	B.sc	Computer programming in C language	Basic structure of C program - 05/1/21	PPT
11.	B.sc	"	operators in C programming 08/2/21	PPT
12.	B.sc	"	Decision making and branching in C 3/3/21	PPT

S. Geetha

Signature of the Staff

M.K. Murali

Head of the Department

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P. Parasuraman

Principal



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DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: <i>Physics</i>	Academic Year: <i>2020-2021</i>
Name of the Staff: <i>P. Menaka</i>	Semester: <i>IV</i>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.Sc.,	Basic Electronics	02/01/21-Transistor configurations (CE, CB & CC)	PPT.
2.	B.Sc.,	Basic Electronics	11/02/21-General theory of feedback	PPT
3.	B.Sc.,	Basic Electronics	18/02/21-Oscillators and types.	PPT
4.	B.Sc.,	Basic Electronics	4/3/21-FET-characteristics	PPT
5.	B.Sc.,	Applied Physics-III	09/01/21-Semiconductor	PPT
6.	B.Sc.,	Applied Physics-III	08/02/21 Transistor configuration	PPT
7.	B.Sc.,	Applied Physics-III	12/02/21 Ruby Laser.	PPT
8.	B.Sc.,	Applied Physics	03/03/21 Operational Amplifier.	PPT
9.	B.Sc.,	Applied Physics-III	12/03/21 - LED.	

P. Menaka
Signature of the Staff

P. Menaka
Head of the Department

P. Parasuraman
Principal



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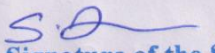
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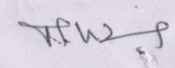
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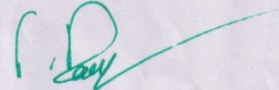
DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: PHYSICS	Academic Year: 2020 - 2021
Name of the Staff: S. DHANACHAYAN	Semester: Odd and EVEN

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1	III B.Sc	material science & Solid State Physics	9/12/2020 Bravais Lattice system	PPT
2	B.Sc Phy	material science & Solid State Physics	14/12/2020 Ionic Bonding in NaCl	PPT
3	III B.Sc	material science & Solid State Physics	17/12/2020 Covalent Bond	PPT
4	III B.Sc	material science & Solid State Physics	21/12/2020 Miller indices of plane	PPT
5	III B.Sc	material science & Solid State Physics	24/12/2020 hydrogen bonds	PPT
6	III B.Sc	material science & Solid State Physics	6/1/2021 Crystal Lattices	PPT
7	III B.Sc	Solid State Physics	20/1/2021 single crystal	PPT
8	III B.Sc	Solid State Physics	28/1/2021 crystal system	PPT
9	III B.Sc	Solid State Physics	9/1/2021 Unit cell	PPT
10	III B.Sc	material science & Solid State Physics	19/1/2021 Metallic Bonding	PPT


Signature of the Staff


Head of the Department


Principal



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DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: <i>PHYSICS</i>	Academic Year: <i>2020 - 2021</i>
Name of the Staff: <i>S.P. Ramachandran</i>	Semester: <i>odd & Even</i>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	<i>III B.Sc</i>	<i>Atomic and nuclear physics</i>	<i>7-12-2020</i> <i>Milikan's oil drop Method</i>	<i>PPT</i>
2.	<i>III B.Sc</i>	<i>Atomic and nuclear physics</i>	<i>13/12/2020</i> <i>Properties of Cathode rays</i>	<i>PPT</i>
3.	<i>III B.Sc</i>	<i>Atomic and nuclear physics</i>	<i>15/12/2020</i> <i>Geiger Muller Counter</i>	<i>PPT</i>
4.	<i>III B.Sc</i>	<i>Atomic and nuclear physics</i>	<i>20/12/2020</i> <i>Stern and Gerlach Experiment</i>	<i>PPT</i>
5.	<i>III B.Sc</i>	<i>Atomic and nuclear physics</i>	<i>5/1/2021</i> <i>Lamor's Theorem</i>	<i>PPT</i>
6.	<i>III B.Sc</i>	<i>Atomic and nuclear physics</i>	<i>10/1/2021</i> <i>Discovery of Gamma method</i>	<i>PPT</i>
7.	<i>II B.Sc</i>	<i>Laser and spectroscopy</i>	<i>18/1/2021</i> <i>Laser properties, Concept</i>	<i>PPT</i>
8.	<i>II B.Sc</i>	<i>Laser and spectroscopy</i>	<i>9/2/2021</i> <i>He-Ne Laser</i>	<i>PPT</i>
9.	<i>II B.Sc</i>	<i>Laser and spectroscopy</i>	<i>12/2/2021</i> <i>Homojunction Semiconductor</i>	<i>PPT</i>
10.	<i>II B.Sc</i>	<i>Laser and spectroscopy</i>	<i>21/2/2021</i> <i>Heterojunction Semiconductor</i>	<i>PPT</i>
11.	<i>III B.Sc</i>	<i>Nano Science</i>	<i>04/3/2021</i> <i>Top-down approach</i>	<i>PPT</i>
12.	<i>III B.Sc</i>	<i>Nano Science</i>	<i>18/3/2021</i> <i>Bottom-up approach</i>	<i>PPT</i>

S.P. Ramachandran
Signature of the Staff

T.K. M. S.

Head of the Department

G. V. S.
Principal

Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D
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DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: PHYSICS	Academic Year: 2020-2021
Name of the Staff: Senthilkumar - G	Semester: odd - Even.

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	III BSC	Nano Science	7/12/2020 Nano Particles	PPT
2.	III BSC	Nano Science	21/12/2020 SEM	PPT
3.	III BSC	Nano Science	28/12/2020 TEM	PPT
4.	III BSC	Nano Science	11/12/2021 XRD	PPT
5.	III BSC	Nano Science	25/11/2020 STEM	PPT
6.	III BSC	Nano Science	2/11/2020 CVD	PPT
7.	III BSC	Digital Electronics	15/12/2021 Number System	PPT
8.	III BSC	Digital Electronics	22/12/2021 Flip flops	PPT
9.	III BSC	Digital Electronics	8/3/2021 NAND Gate	PPT
10.	III BSC	Digital Electronics	22/3/2021 NOR Gate	PPT

Senthilkumar - G
Signature of the Staff

M.K. Murali

Head of the Department

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T.J. Parasuraman

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DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: <u>PHYSICS</u>	Academic Year: <u>2020-2021</u>
Name of the Staff: <u>R.SHANTHI</u>	Semester: <u>I, II & IV, V</u>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.Sc	Properties of matter and sound	08/11/2021 Reverberation time	PPT
2.	B.Sc	Allied Physics -III	18/11/2021 Angstrom's Pyrheliometer	PPT
3.	M.Sc	Electro magnetic theory	20/11/2021 Faraday law of induction	PPT
4.	M.Sc	Condensed matter of physics	29/11/2021 Imperfection in crystal	PPT
5.	B.Sc	Elements of theoretical physics	05/02/2021 Compound Pendulum	PPT
6.	M.Sc	Condensed matter of physics	15/02/2021 Closed Packed Structure	PPT
7.	B.Sc	Allied Physics -III	24/02/2021 Coulomb's law	PPT
8.	M.Sc	Electro magnetic theory	01/03/2021 Ampere's circuital law	PPT
9.	B.Sc	Elements of theoretical physics	09/03/2021 wave and group velocity	PPT
10.	M.Sc	Condensed matter of physics	11/03/2021 Intrinsic & Extrinsic semiconductors	PPT
11.	B.Sc	Allied Physics III	15/03/2021 Rayleigh's method	PPT
12.	M.Sc	Condensed matter of physics	22/03/2021 Simple crystal structure	PPT

R.S.L.
Signature of the Staff



THS
Head of the Department
Dr. M.K. MURALI, M.Sc., M.Phil., Ph.D.
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Principal

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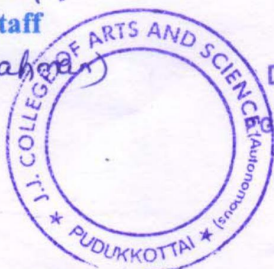
DETAILS OF ICT ENABLED TEACHING RESOURCES

Department: PHYSICS	Academic Year: 2020-2021
Name of the Staff: DR. M. ABDUR RAHMAN	Semester: IV

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.Sc	Analog Electronics	11-2-2021: Photo diode - Photo transistor	PPT
2.	B.Sc	Analog Electronics	12-2-2021: SPECIAL SEMI conductor devices	PPT
3.	B.Sc	APPLIED PHYSICS-III	15-2-2021: LASER & MASERS	PPT
4.	B.Sc	APPLIED Physics-III	23-2-2021: OPTO electronic devices	PPT
5.	B.Sc	APPLIED Physics-III	5-3-2021: OPERATIONAL amplifier	PPT
6.	B.Sc	APPLIED Physics-III	7-3-2021: Inverting Amplifiers	PPT
7.	B.Sc	APPLIED Physics-III	8-3-2021: Non Inverting Amplifiers	PPT
8.	B.Sc	APPLIED Physics-III	10-3-2021: CMRR, sign & scale changer.	PPT

M. Abdur Rahman
Signature of the Staff

Dr. M. Abdur Rahman



M.K. Murali

Head of the Department

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J. Parasuraman

Principal

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Department: PHYSICS	Academic Year: 2020 -2021
Name of the Staff: M. BHUVANESWARI	Semester: II

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
01	B.Sc III	Microprocessor and its applications	2/2/21 Instruction format opcode, operands	Ppt
02	B.Sc III	Microprocessor & its applications	8/2/21 Data transfer instructions	Ppt
03	B.Sc III	Microprocessors & its applications	12/2/21 Arithmetic instructions	Ppt
04	B.Sc III	Microprocessors & its applications	18/2/21 Logical instructions, Branch instructions	Ppt
05	B.Sc III	Microprocessor & its applications	4/3/21 8 bit addn, subtraction Multi-byte addn.	Ppt
06	B.Sc III	Microprocessor & its applications	12/3/21 Largest, smallest in an array, Descending order	Ppt
07	M.Sc I	Statistical Mechanics	5/2/21 Clausius inequality	Ppt
08	M.Sc I	Statistical Mechanics	10/2/21 Thermodynamic potentials	Ppt
09	M.Sc I	Statistical Mechanics	11/2/21 Phase transitions	Ppt
10	M.Sc I	Statistical Mechanics	2/3/21 Boltzmann transport eqn - Lorentz soln.	Ppt
11	M.Sc I	Statistical Mechanics	3/3/21 Liouville's theorem	Ppt
12	M.Sc I	Statistical Mechanics	12/3/21 principle of equipartition of energy, chemical potential.	Ppt

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