



SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Online-Class Lesson Plan

Academic Year 2020-2021 [Even Semester]

Department: Physics

| | | |
|---------------------|---|---|
| Class | : | I BSc-Physics |
| Semester | : | II |
| Name of the Faculty | : | Dr.M.Mohamed Roshan |
| Title of the Course | : | Physical Optics & Spectroscopy |
| Subject Code | : | 18UCPH21 |
| ICT Tools used | : | Google glass room |
| Text books | : | A Text book of Optics – Brijlal Subramaniam |
| Reference books | : | College Physics – M. Soundarajan |
| e-resources | : | Power point |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------------------|-------|------|---|------------------------|-----------------|
| 1 | 4.01.2021 | 11.30to 12.20 pm | A | I | Concepts of a wave, its characteristics, | 04/01/21 | |
| 2 | 6.01.2021 | 10.30 to 11.20 am | C | I | Superposition of waves and conditions of interference | 06/01/21 | |
| 3 | 7.01.2021 | 8.30 to 9.20 am | D | I | Interference due to reflected light | 07/01/21 | |
| 4 | 12.01.2021 | 11.30to 12.20 pm | A | I | Theory of Newton's rings | 12/01/21 | |
| 5 | 18.01.2021 | 10.30 to 11.20 am | C | I | Experimental determination of R.I | 18/01/21 | |
| 6 | 19.01.2021 | 8.30 to 9.20 am | D | I | Determination of R.I of liquid | 19/01/21 | |
| 7 | 22.01.2021 | 11.30to 12.20 pm | A | I | Theory of Air-wedge | 25/01/21 | Class Cancelled |

Signature of the Faculty

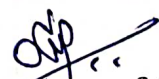
Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|------|--|------------------------|--|
| 8 | 25.01.2021 | 10.30 to 11.20 am | C | I | Experiment to find thickness of wire-Airwedge | 27.01.21 | |
| 9 | 27.01.2021 | 8.30 to 9.20 am | D | I | Applications of interference in thin films | 27.01.21 | |
| 10 | 30.01.2021 | 11.30 to 12.20 pm | A | I | Michelson's interferometer construction and working | 30/01/21 | |
| 11 | 2.02.2021 | 10.30 to 11.20 am | C | I | Determination of thickness of a mica sheet | 02/02/21 | |
| 12 | 3.02.2021 | 8.30 to 9.20 am | D | I | Numericals on related topics | 03/02/21 | |
| 13 | 6.02.2021 | 11.30 to 12.20 pm | A | II | Diffraction of light – an introduction | 06/02/21 | |
| 14 | 9.02.2021 | 10.30 to 11.20 am | C | II | Classification of diffraction – Fresnel & Fraunhofer | 09/02/21 | |
| 15 | 10.02.2021 | 8.30 to 9.20 am | D | II | Fresnel's Diffraction of a straight edge | 15/02/21 | CIA-I No theory/practical in the first hour |
| 16 | 15.02.2021 | 11.30 to 12.20 pm | A | II | Grating and its theory | 17/02/21 | |
| 17 | 17.02.2021 | 10.30 to 11.20 am | C | II | Determination of Wavelength colours using grating | 22/02/21 | |
| 18 | 18.02.2021 | 8.30 to 9.20 am | D | II | Understanding the concepts of absent spectra. | 24/02/21 | |
| 19 | 22.02.2021 | 11.30 to 12.20 pm | A | II | Know about overlapping of spectra | 24/02/21 | |
| 20 | 24.02.2021 | 10.30 to 11.20 am | C | II | Numericals related to grating equation | 25/02/21 | |
| 21 | 25.02.2021 | 8.30 to 9.20 am | D | II | Dispersive power of a grating | 25/02/21 | |
| 22 | 01.03.2021 | 11.30 to 12.20 pm | A | II | Resolving power of the grating. | 01/03/21 | |

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Signature of the HOD



| SL No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|-------|-------------|-------------------|-------|------|---|------------------------|-------------------------|
| 23 | 03.3.2021 | 10.30 to 11.20 am | C | | Comparison of Prism spectrum and grating spectrum | 03/03/21 | |
| 24 | 04.03.2021 | 8.30 to 9.20 am | D | II | Revision of topics | 08/03/21 | Ayya Vaikundar jeyanthi |
| 25 | 8.03.2021 | 11.30 to 12.20 pm | A | III | Polarization concepts and Transverse wave | 08/03/21 | |
| 26 | 10.03.2021 | 10.30 to 11.20 am | C | III | Double refraction | 10/03/21 | |
| 27 | 11.03.2021 | 8.30 to 9.20 am | D | III | Huygen's explanation of double refraction | 11/03/21 | |
| 28 | 16.03.2021 | 11.30 to 12.20 pm | A | III | Construction of Nicol prism and its working | 16/03/21 | |
| 29 | 18.03.2021 | 10.30 to 11.20 am | C | III | Quarter wave & Half wave plate | 18/03/21 | |
| 30 | 19.03.2021 | 8.30 to 9.20 am | D | III | Production of plane, elliptically and circularly polarized lights | 23/03/21 | CIA-II |
| 31 | 23.03.2021 | 11.30 to 12.20 pm | A | III | Detection and analysis of different types of polarization | 25/03/21 | |
| 32 | 25.03.2021 | 10.30 to 11.20 am | C | III | Optical Activity and Fresnel's explanation | 25/03/21 | |
| 33 | 26.03.2021 | 8.30 to 9.20 am | D | III | Working of Bi-Quartz Polarimeter | 31/03/21 | OD |
| 34 | 31.03.2021 | 11.30 to 12.20 pm | A | III | Determination of specific rotatory power | 04/04/21 | |
| 35 | 04.04.2021 | 10.30 to 11.20 am | C | III | Numericals related to topics | 08/04/21 | |
| 36 | 5.04.2021 | 8.30 to 9.20 am | D | III | Revision of topics | 08/04/21 | OD |
| 37 | 8.04.2021 | 11.30 to 12.20 pm | A | V | Infrared spectroscopy and its introduction | 12/04/21 | |
| 38 | 12.04.2021 | 10.30 to 11.20 am | C | V | Biological application of IR | 15/04/21 | |
| 39 | 15.04.2021 | 8.30 to 9.20 am | D | V | Other Features and applications of IR | 19/04/21 | |
| 40 | 19.04.2021 | 11.30 to 12.20 pm | A | V | Theory of Raman Scattering | 21/04/21 | |
| 41 | 21.04.2021 | 10.30 to 11.20 am | C | V | Numerical related to Raman Scattering | 22/04/21 | |
| 42 | 22.04.2021 | 8.30 to 9.20 am | D | V | Application Raman scattering | 26/04/21 | |
| | 26.04.2021 | 11.30 to 12.20 pm | A | V | Revision of topics of Chapter I and | 28/04/21 | |



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Online-Class Lesson Plan


Academic Year 2020-2021 [Even Semester]

Department: Physics


| | | |
|---------------------|---|--|
| Class | : | I B.Sc. Physics |
| Semester | : | II |
| Name of the Faculty | : | Dr.R.Kumuthini |
| Title of the Course | : | Optics & Spectroscopy |
| Subject Code | : | 18UCPH21 |
| ICT Tools used | : | Google Classroom |
| Text books | : | Fundamentals of Molecular Spectroscopy –C.N. Banwell |
| Reference books | : | Spectroscopy (Atomic and Molecular)-Gurdeep.R. Chatwal |
| e-resources | : | Power Point Presentation |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------|-------|------|---|------------------------|---------|
| 1 | 04.01.2021 | 12.30-1.20 | A | IV | Introduction to Spectroscopy | 04.01.2021 | |
| 2 | 12.01.2021 | 12.30-1.20 | A | IV | Microwave spectroscopy | 12.01.2021 | |
| 3 | 22.01.2021 | 12.30-1.20 | A | IV | Pure rotational spectra of diatomic molecule. | 22.01.2021 | |
| 4 | 30.01.2021 | 12.30-1.20 | A | IV | Rigid rotator | 30.01.2021 | |
| 5 | 06.02.2021 | 12.30-1.20 | A | IV | Symmetric top and Asymmetric top | 06.02.2021 | |


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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------|-------|------|---|------------------------|---------|
| 6 | 15.02.2021 | 12.30-1.20 | A | IV | Microwave oven | 15.02.2021 | |
| 7 | 22.02.2021 | 12.30-1.20 | A | IV | Microwave spectrometer | 22.02.2021 | |
| 8 | 01.03.2021 | 12.30-1.20 | A | V | Infra red spectroscopy – preliminaries and selection rules | 01.03.2021 | |
| 9 | 08.03.2021 | 12.30-1.20 | A | V | Vibrating diatomic molecule | 08.03.2021 | |
| 10 | 16.03.2021 | 12.30-1.20 | A | V | Diatomic vibrating rotator | 16.03.2021 | |
| 11 | 23.03.2021 | 12.30-1.20 | A | V | Normal vibrations of CO ₂ and H ₂ O molecule | 23.03.2021 | |
| 12 | 31.03.2021 | 12.30-1.20 | A | V | Vibrations of polyatomic molecule | 31.3.21 | |
| 13 | 08.04.2021 | 12.30-1.20 | A | V | Applications of Infra red spectroscopy | 8.4.21 | |
| 14 | 19.04.2021 | 12.30-1.20 | A | V | Raman spectroscopy- Classical theory | 19.4.21 | |
| 15 | 26.04.2021 | 12.30-1.20 | A | V | Raman spectroscopy- Quantum theory and applications of Raman Spectroscopy | 26.4.21 | |


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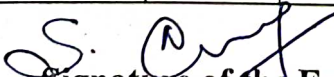
Online/Off line -Class Lesson Plan


Academic Year 2020-2021[Even Semester]

Department: Physics

| | | |
|---------------------|---|---|
| Class | : | I BSc-Physics |
| Semester | : | II |
| Name of the Faculty | : | Dr.S.Nazarath Begum |
| Title of the Course | : | Mechanics and Astrophysics |
| Subject Code | : | 18UCPH22 |
| ICT Tools used | : | Google glass room |
| Text books | : | College Physics – Volume I & III – N. Sundararajan, George Thomas and Syed Aziz |
| Reference books | : | Properties of Matter – Brijlal and Subrahmanyam –2. Mechanics & Electrodynamics – Brijlal and Subrahmanyam, S.Chand & Co. Ltd. New Delhi. |
| e-resources | : | Power point |

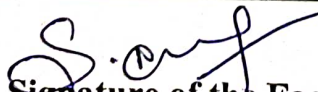
| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|---------------|--|------------------------|---------|
| 1 | 5.01.2021 | 8.30 to 9.20 am | B | I-F& R motion | Friction between solid surfaces | 5.01.2021 | |
| 2 | 6.01.2021 | 9.30 to 10.20 am | C | | Coefficient of static and kinetic friction | 6.01.2021 | |
| 3 | 7.01.2021 | 10.30 to 11.20 am | D | | Coefficient of rolling friction , laws of friction | 7.01.2021 | |
| | 11.01.2021 | 10.30 to 11.20 am | F | | Angular velocity and angular acceleration | 11.01.2021 | |
| 5 | 13.01.2021 | 8.30 to 9.20 am | B | | Rotation with constant angular acceleration | 13.01.2021 | |
| 6 | 18.01.2021 | 9.30 to 10.20 am | C | | K.E of rotation | 19.01.2021 | |
| 7 | 19.01.2021 | 10.30 to 11.20 am | D | | Work and power in rotation | 21.01.2021 | |

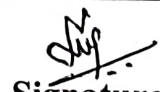

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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|------------------|--|------------------------|------------------------------|
| 23 | 18.02.2021 | 10.30 to 11.20 am | D | | Assignment problems discussed | 20.02.2021 | |
| 24 | 20.02.2021 | 10.30 to 11.20 am | F | | Class test | 23.02.2021 | |
| 25 | 23.02.2021 | 8.30 to 9.20 am | B | III- Gravitation | Newtons law of gravitation | 24.02.2021 | |
| 26 | 24.02.2021 | 9.30 to 10.20 am | C | | Gravitational field , gravitational potential | 25.02.2021 | |
| 27 | 25.02.2021 | 10.30 to 11.20 am | D | | Gravitational potential energy | 27.02.2021 | |
| 28 | 27.02.2021 | 10.30 to 11.20 am | F | | Gravitational potential to spherical shells | 2.03.2021 | |
| 29 | 2.03.2021 | 8.30 to 9.20 am | B | | Gravitational field due to spherical shells | 3.03.2021 | |
| 30 | 3.03.2021 | 9.30 to 10.20 am | C | | Gravitational field and potential due to hollow sphere | 6.03.2021 | |
| 31 | 4.03.2021 | 10.30 to 11.20 am | D | | Gravitational potential to solid sphere | 09.03.2021 | Ayya Vaikunda swami jeyanthi |
| 32 | 6.03.2021 | 10.30 to 11.20 am | F | | Gravitational field due to solid sphere | 09.03.2021 | |
| 33 | 09.03.2021 | 8.30 to 9.20 am | B | | Inertial mass and gravitational mass | 10.03.2021 | |
| 34 | 10.03.2021 | 9.30 to 10.20 am | C | | Projectiles | 11.03.2021 | |
| 35 | 11.03.2021 | 10.30 to 11.20 am | D | | Escape velocity | 15.03.2021 | |
| 36 | 15.03.2021 | 10.30 to 11.20 am | F | | Class test | 18.03.2021 | Board of studies - Meeting |
| 37 | 17.03.2021 | 8.30 to 9.20 am | B | IV- Satellite | Satellite motion | 19.03.2021 | CIA-II |
| 38 | 18.03.2021 | 9.30 to 10.20 am | C | | Orbital velocity, time period | 19.03.2021 | |
| 39 | 19.03.2021 | 10.30 to 11.20 am | D | | Launching of artificial satellites | 22.03.2021 | |
| 40 | 22.03.2021 | 10.30 to 11.20 am | F | | Geo stationary satellite | 24.03.2021 | |
| 41 | 24.03.2021 | 8.30 to 9.20 am | B | | Weightlessness | 25.03.2021 | |
| 42 | 25.03.2021 | 9.30 to 10.20 am | C | | Binding energy of a satellite | 26.03.2021 | |
| 43 | 26.03.2021 | 10.30 to 11.20 am | D | | Artificial gravity in space stations | 30.03.2021 | |
| 44 | 30.03.2021 | 10.30 to 11.20 am | F | | Remote sensing through satellite | 1.04.2021 | Page 2 of 4 |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|----------------|---|------------------------|---------|
| 8 | 21.01.2021 | 10.30 to 11.20 am | F | | Torque and angular acceleration | 23.01.2021 | |
| 9 | 23.01.2021 | 8.30 to 9.20 am | B | | Angular momentum | 25.01.2021 | |
| 10 | 25.01.2021 | 9.30 to 10.20 am | C | | Conservation of angular momentum | 27.01.2021 | |
| 11 | 27.01.2021 | 10.30 to 11.20 am | D | | Applications of angular momentum | 29.01.2021 | |
| 12 | 29.01.2021 | 10.30 to 11.20 am | F | | Class Test | 01.02.2021 | |
| 13 | 01.02.2021 | 8.30 to 9.20 am | B | II - Collision | Elastic and Inelastic collision | 2.02.2021 | |
| 14 | 2.02.2021 | 9.30 to 10.20 am | C | | Lab frame and centre of mass frame | 3.02.2021 | |
| 15 | 3.02.2021 | 10.30 to 11.20 am | D | | Perfectly elastic collision in one dimension | 5.02.2021 | |
| 16 | 5.02.2021 | 10.30 to 11.20 am | F | | Special cases discussed – one dimension | 8.02.2021 | |
| 17 | 8.02.2021 | 8.30 to 9.20 am | B | | Final velocities after collision | 9.02.2021 | |
| 18 | 9.02.2021 | 9.30 to 10.20 am | C | | Perfectly in elastic collision in one dimension | 10.02.2021 | |
| 19 | 10.02.2021 | 10.30 to 11.20 am | D | | Special cases-Discussed | 12.02.2021 | |
| 20 | 12.02.2021 | 10.30 to 11.20 am | F | | Coefficient of restitution | 12.02.2021 | |
| 21 | 16.02.2021 | 8.30 to 9.20 am | B | | Elastic collisions in two dimension | 17.02.2021 | CIA-I |
| 22 | 17.02.2021 | 9.30 to 10.20 am | C | | Special cases discussed | 18.02.2021 | |


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| 45 | 1.04.2021 | 8.30 to 9.20 am | B | | Indian remote sensing satellites | 3.04.2021 | |
| 46 | 3.04.2021 | 9.30 to 10.20 am | C | | Indian remote sensing satellites-Explanation | 5.04.2021 | |
| 47 | 5.04.2021 | 10.30 to 11.20 am | D | | Applications of remote sensing | 5.04.2021 | |
| 48 | 7.04.2021 | 10.30 to 11.20 am | F | | Class test | 7.04.2021 | |
| 49 | 9.04.2021 | 8.30 to 9.20 am | B | V- Astrophysics | Physical properties of star-luminosity , Brightness | 9.04.2021 | |
| 50 | 12.04.2021 | 9.30 to 10.20 am | C | | Distance | 12.04.2021 | |
| 51 | 15.04.2021 | 10.30 to 11.20 am | D | | surface temperature , Mass | 12.04.2021 | |
| 52 | 17.04.2021 | 10.30 to 11.20 am | F | | Chemical composition , | 15.04.2021 | |
| 53 | 20.04.2021 | 8.30 to 9.20 am | B | | internal temperature , Internal pressure | 17.04.2021 | |
| 54 | 21.04.2021 | 9.30 to 10.20 am | C | | Mass luminosity relation | 20.04.2021 | |
| 55 | 22.04.2021 | 10.30 to 11.20 am | D | | Stellar evolution | 21.04.2021 | |
| 56 | 24.04.2021 | 10.30 to 11.20 am | F | | Formation of stars | 21.04.2021 | |
| 57 | 27.04.2021 | 8.30 to 9.20 am | B | | White dwarfs | 22.04.2021 | |
| 58 | 27.04.2021 | 9.30 to 10.20 am | C | | Black holes | 24.04.2021 | |
| 59 | 29.04.2021 | 10.30 to 11.20 am | D | | Supernova explosion | 27.04.2021 | |
| 60 | 3.05.2021 | 10.30 to 11.20 am | F | | Class test | 27.04.2021 | |


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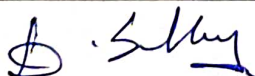
Online-Class Lesson Plan

Academic Year 2020-2021 [Even Semester]

Department: Physics

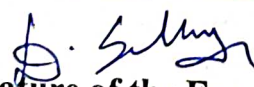
| | | |
|---------------------|---|---|
| Class | : | I BSc Physics |
| Semester | : | II |
| Name of the Faculty | : | Dr. D. Sathya |
| Title of the Course | : | Value Education- II |
| Subject Code | : | 18USVE2B |
| ICT Tools used | : | Google Classroom |
| Text books | : | Value Education-II Mahadevan, Jindha, Ayubkan |
| Reference books | : | |
| e-resources | : | |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------|-------|------|--|------------------------|---------|
| 1 | 05.01.2021 | 11.30-12.20 | B | I | Introduction to ethical values | 05.01.2021 | |
| 2 | 08.01.2021 | 12.30-01.20 | E | I | Individual Morality | 08.01.2021 | |
| 3 | 13.01.2021 | 11.30-12.20 | B | I | Objective of Moral life | 13.01.2021 | |
| 4 | 20.01.2021 | 12.30-01.20 | E | I | Living in accordance with the code of Morality | 20.01.2021 | |
| 5 | 23.01.2021 | 11.30-12.20 | B | I | the goodness of Morality | 23.01.2021 | |
| 6 | 28.01.2021 | 12.30-01.20 | E | I | Morality and <i>Thirukural</i> | 28.01.2021 | |
| 7 | 01.02.2021 | 11.30-12.20 | B | I | Morality and <i>Thirukural</i> | 01.02.2021 | |


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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|----------|-------------|-------------|-------|------|--|------------------------|---------|
| 8 | 04.02.2021 | 12.30-01.20 | E | I | The need for faith | 04.02.2021 | |
| UNIT-II | | | | | | | |
| 9 | 08.02.2021 | 11.30-12.20 | B | II | Adherence to higher code of Morality | 08.02.2021 | |
| 10 | 11.02.2021 | 12.30-01.20 | E | II | Fear of God | 11.02.2021 | |
| 11 | 16.02.2021 | 11.30-12.20 | B | II | Good Moral Values | 16.02.2021 | |
| 12 | 19.02.2021 | 12.30-01.20 | E | II | Duty to Parents | 19.02.2021 | |
| 13 | 23.02.2021 | 11.30-12.20 | B | II | Teacher, respecting elders, Moral Etiquettes | 23.02.2021 | |
| 14 | 26.02.2021 | 12.30-01.20 | E | II | Right-minded Principle, High Principles for Proper conduct | 26.02.2021 | |
| UNIT-III | | | | | | | |
| 15 | 02.03.2021 | 11.30-12.20 | B | III | Inculcating good attitudes | 02.03.2021 | |
| 16 | 05.03.2021 | 12.30-01.20 | E | III | Open mindedness – Morale | 05.03.2021 | |
| 17 | 09.03.2021 | 11.30-12.20 | B | III | analysing the pros and cons of good and bad | 09.03.2021 | |
| 18 | 12.03.2021 | 12.30-01.20 | E | III | Service to others – Mind Power | 12.03.2021 | |
| 19 | 13.03.2021 | 12.30-01.20 | E | III | tolerance, respecting others, showing love to others, patience | 13.03.2021 | |
| 20 | 17.03.2021 | 11.30-12.20 | B | III | tranquility – Modesty, kindness and forgiveness | 17.03.2021 | |

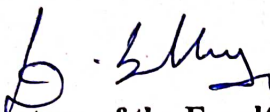

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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|---------|-------------|-------------|-------|------|--|------------------------|---------|
| UNIT-IV | | | | | | | |
| 21 | 20.03.2021 | 12.30-01.20 | E | IV | Quotations and moral Stories expressing Good characters of Great personalities | 20.03.2021 | |
| 22 | 24.03.2021 | 11.30-12.20 | B | IV | Quotations and moral Stories expressing Good characters of Great personalities | 24.03.2021 | |
| 23 | 27.03.2021 | 12.30-01.20 | E | IV | Life History of Great people: Mahatma Gandhi | 27.03.2021 | |
| 24 | 01.04.2021 | 11.30-12.20 | B | IV | Life History of Great people: Mahatma Gandhi | 01.04.2021 | |
| 25 | 06.04.2021 | 12.30-01.20 | E | IV | Life History of Great people: Abraham Lincoln | 06.04.2021 | |
| 26 | 09.04.2021 | 11.30-12.20 | B | IV | Life History of Great people: Dr. A.P.J. Abdul Kalam. | 09.04.2021 | |
| UNIT-V | | | | | | | |
| 27 | 10.04.2021 | 11.30-12.20 | B | V | Truth, the importance of uprightness, | 10.04.2021 | |
| 28 | 16.04.2021 | 12.30-01.20 | E | V | Truth, the integrity, friendship | 16.04.2021 | |
| 29 | 20.04.2021 | 11.30-12.20 | B | V | Health awareness on Alcohol and drug abuse | 20.04.2021 | |
| 30 | 23.04.2021 | 12.30-01.20 | E | V | inculcating reading habit | 23.04.2021 | |
| 31 | 27.04.2021 | 11.30-12.20 | B | V | reading good books, Hygiene | 27.04.2021 | |

D. S. Singh

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| 32 | 30.04.2021 | 12.30-01.20 | E | V | Dowry, Corruption | 30.04.2021 | |
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Signature of the Faculty


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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)**Rahmath Nagar, Tirunelveli - 627 011****Online/Off line -Class Lesson Plan****Academic Year 2020-2021[Even Semester]****Department: Physics**

| | | |
|----------------------------|---|---|
| Class | : | I BSc Physics |
| Semester | : | Second Semester |
| Name of the Faculty | : | Dr.S.Nazarath Begum |
| Title of the Course | : | Physics Core Practicals-II |
| Subject Code | : | 18UCPH2P1 |
| ICT Tools used | : | Google class room |
| Text books | : | Practical Physics - Ouseph, Srinivasan & Vijayendran, |
| Reference books | : | Practical Physics – P. R. Sasi Kumar, PHI |
| e-resources | : | |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------------|-------|------|---|------------------------|---------|
| 1 | 11.01.2021 | 11.30 to 1.20 pm | F | | Demo class- All practical's | 11.01.2021 | |
| 2 | 21.01.2021 | 11.30 to 1.20 pm | F | I | To determine the Young's Modulus of the material of the bar by Cantilever | 21.01.2021 | |
| 3 | 29.01.2021 | 11.30 to 1.20 pm | F | II | To determine the Rigidity Modulus of a Wire by Torsional pendulum. | 29.01.2021 | |
| 4 | 5.02.2021 | 11.30 to 1.20 pm | F | III | To verify the perpendicular axes theorem by Bifilar pendulum | 5.02.2021 | |
| 5 | 12.02.2021 | 11.30 to 1.20 pm | F | IV | To determine the frequency of a tuning fork – Melde's string | 12.02.2021 | |
| 6 | 20.02.2021 | 11.30 to 1.20 pm | F | V | To determine wavelength of sodium light using Newton's Rings. | 20.02.2021 | |

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|----|------------|------------------------|---|------|---|------------|--------------------------|
| 7 | 27.02.2021 | 11.30 to 1.20 pm | F | VI | To determine the wavelength of spectral lines of mercury spectrum-Grating normal incidence method-spectrometer. | 27.02.2021 | |
| 8 | 6.03.2021 | 11.30 to 1.20 pm | F | VII | To determine the coefficient of thermal conductivity of a bad conductor- Lee's Disc method | 6.03.2021 | |
| 9 | 15.03.2021 | 11.30 to 1.20 pm | F | VIII | To study the characteristics of a transistor. | 22.03.2021 | Board of studies meeting |
| 10 | 22.03.2021 | 11.30 to 1.20 pm | F | IX | To determine the coefficient of viscosity by Stokes method. | 30.03.2021 | |
| 11 | 30.03.2021 | 11.30 to 1.20 pm | F | X | To determine the surface tension of a liquid | 30.03.2021 | |


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**SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)**

Rahmath Nagar, Tirunelveli - 627 011


Online-Class Lesson Plan**Academic Year 2020-2021 [Even Semester]****Department: Physics**

| | |
|----------------------------|---|
| Class | : II Year |
| Semester | : IV |
| Name of the Faculty | : Dr. D. Sathya |
| Title of the Course | : Applied Physics |
| Subject Code | : 18UCPH41 |
| ICT Tools used | : Google Classroom |
| Text books | : Applied Physics- Ubald Raj, Jose Robin |
| Reference books | : Energy Sources- G.D. Rai |
| e-resources | : Videos |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|---------------|-------|------|--|------------------------|---------|
| 1 | 04.01.2021 | 09.30-10.20AM | A | I | World's reserve of commercial energy sources | 04.01.2021 | |
| 2 | 08.01.2021 | 09.30-10.20AM | E | I | Various forms of energy | 08.01.2021 | |
| 3 | 12.01.2021 | 09.30-10.20AM | A | I | Renewable energy sources-: sunlight, wind and waves | 12.01.2021 | |
| 4 | 20.01.2021 | 09.30-10.20AM | E | I | Renewable energy sources-: the tides, biomass, geothermal energy | 20.01.2021 | |
| 5 | 22.01.2021 | 09.30-10.20AM | A | I | Conventional energy sources: coal, oil, natural gas, nuclear power | 22.01.2021 | |
| 6 | 28.01.2021 | 09.30-10.20AM | E | I | Conventional energy sources: nuclear power | 28.01.2021 | |
| 7 | 30.01.2021 | 09.30-10.20AM | A | I | Comparison between conventional sources of energy and non-conventional energy sources. | 30.01.2021 | |

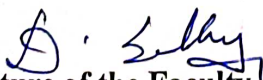
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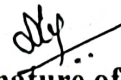
| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|----------|-------------|---------------|-------|------|--|------------------------|---------|
| UNIT-II | | | | | | | |
| 8 | 04.02.2021 | 09.30-10.20AM | E | II | Solar cell | 04.02.2021 | |
| 9 | 06.02.2021 | 09.30-10.20AM | A | II | Solar crop dryers, Solar water heater | 06.02.2021 | |
| 10 | 11.02.2021 | 09.30-10.20AM | E | II | Biomass energy | 11.02.2021 | |
| 11 | 15.02.2021 | 09.30-10.20AM | A | II | Deena Bandhu model of gobar gas plant | 15.02.2021 | |
| 12 | 19.02.2021 | 09.30-10.20AM | E | II | Windmill | 19.02.2021 | |
| UNIT-III | | | | | | | |
| 13 | 22.02.2021 | 09.30-10.20AM | A | III | Climate: its classification | 22.02.2021 | |
| 14 | 26.02.2021 | 09.30-10.20AM | E | III | causes of climate change | 26.02.2021 | |
| 15 | 01.03.2021 | 09.30-10.20AM | A | III | global warming and its outcomes | 01.03.2021 | |
| 16 | 05.03.2021 | 09.30-10.20AM | E | III | air pollution; aerosols | 05.03.2021 | |
| 17 | 08.03.2021 | 09.30-10.20AM | A | III | ozone depletion, acid rain | 08.03.2021 | |
| 18 | 12.03.2021 | 09.30-10.20AM | E | III | environmental issues related to climate and control measurements | 12.03.2021 | |
| UNIT-IV | | | | | | | |
| 19 | 16.03.2021 | 09.30-10.20AM | A | IV | Introduction, Types of tools | 16.03.2021 | |


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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|---------------|-------|------|---|------------------------|---------|
| 20 | 20.03.2021 | 09.30-10.20AM | E | IV | Precaution in handling tools used for wiring, Wires | 20.03.2021 | |
| 21 | 27.03.2021 | 09.30-10.20AM | E | IV | Cables | 27.03.2021 | |
| 22 | 31.03.2021 | 09.30-10.20AM | A | IV | System of domestic wiring | 31.03.2021 | |
| 23 | 06.04.2021 | 09.30-10.20AM | E | IV | Good grounding and its need | 06.04.2021 | |
| 24 | 08.04.2021 | 09.30-10.20AM | A | IV | Fuses, Switch wiring | 08.04.2021 | |
| UNIT-V | | | | | | | |
| 25 | 16.04.2021 | 09.30-10.20AM | E | V | Electric bell, Electric kettle | 16.04.2021 | |
| 26 | 19.04.2021 | 09.30-10.20AM | A | V | Electric iron, Fan connection | 19.04.2021 | |
| 27 | 23.04.2021 | 09.30-10.20AM | E | V | Washing machine | 23.04.2021 | |
| 28 | 26.04.2021 | 09.30-10.20AM | A | V | Refrigerator, Freezer | 26.04.2021 | |
| 29 | 30.04.2021 | 09.30-10.20AM | E | V | Water cooler | 30.04.2021 | |
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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

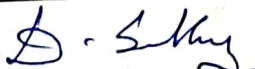
Online-Class Lesson Plan


Academic Year 2020-2021 [Even Semester]

Department: Physics

| | | |
|---------------------|---|---|
| Class | : | II BSc Physics |
| Semester | : | IV |
| Name of the Faculty | : | Dr. D. Sathya |
| Title of the Course | : | Laser and its applications |
| Subject Code | : | 18UCPH41 |
| ICT Tools used | : | Google Meet, Google Classroom |
| Text books | : | Laser and its applications- Ubald Raj, Jose Robin, Laser and Spectroscopy- R. Murugesan, Kiruthika |
| Reference books | : | Laser Physics |
| e-resources | : | Videos |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|----------------|-------|------|--|------------------------|---------|
| UNIT-I | | | | | | | |
| 1 | 04.01.2021 | 10.30-11.20 am | A | I | Introduction to Laser technology | 04.01.2021 | |
| 2 | 06.01.2021 | 9.30-10.20am | C | I | Absorption, spontaneous & stimulated emission of radiation | 06.01.2021 | |
| 3 | 07.01.2021 | 8.30-9.20am | D | I | Basic principle of laser | 07.01.2021 | |
| 4 | 11.01.2021 | 10.30-11.20 am | F | I | characteristics of laser | 11.01.2021 | |
| 5 | 12.01.2021 | 10.30-11.20 am | A | I | Relation between Einstein's A and B coefficients | 12.01.2021 | |
| 6 | 18.01.2021 | 9.30-10.20am | C | I | Relation between Einstein's A and B coefficients | 18.01.2021 | |


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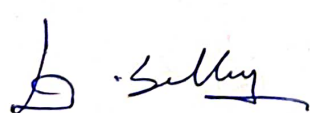
| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|---------|-------------|----------------|-------|------|----------------------------------|------------------------|---------|
| 7 | 19.01.2021 | 8.30-9.20am | D | I | Laser operation | 19.01.2021 | |
| 8 | 21.01.2021 | 10.30-11.20 am | F | I | Pumping, Types of Pumping | 21.01.2021 | |
| 9 | 22.01.2021 | 10.30-11.20 am | A | I | Population inversion | 22.01.2021 | |
| 10 | 25.01.2021 | 9.30-10.20am | C | I | Expression for threshold gain | 25.01.2021 | |
| 11 | 27.01.2021 | 8.30-9.20am | D | I | active medium, Optical feedback | 27.01.2021 | |
| 12 | 29.01.2021 | 10.30-11.20 am | F | I | Revision | 29.01.2021 | |
| UNIT-II | | | | | | | |
| 13 | 30.01.2021 | 10.30-11.20 am | A | II | Resonators | 30.01.2021 | |
| 14 | 02.02.2021 | 9.30-10.20am | C | II | types of resonators | 02.02.2021 | |
| 15 | 03.02.2021 | 8.30-9.20am | D | II | Cavity stability and ABCD matrix | 03.02.2021 | |
| 16 | 05.02.2021 | 10.30-11.20 am | F | II | stability diagram | 09.02.2021 | |
| 17 | 06.02.2021 | 10.30-11.20 am | A | II | modes of resonators | 12.02.2021 | |
| 18 | 09.02.2021 | 9.30-10.20am | C | II | open planar resonator | 15.02.2021 | |
| 19 | 12.02.2021 | 10.30-11.20 am | F | II | laser threshold | 17.02.2021 | |
| 20 | 15.02.2021 | 10.30-11.20 am | A | II | Q-factor | 18.02.2021 | |
| 21 | 17.02.2021 | 9.30-10.20am | C | II | Q-switching | 20.02.2021 | |


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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|----------|-------------|----------------|-------|------|---------------------------------------|------------------------|---------|
| 22 | 18.02.2021 | 8.30-9.20am | D | II | coherence and directionality of laser | 22.02.2021 | |
| UNIT-III | | | | | | | |
| 23 | 24.02.2021 | 9.30-10.20am | C | III | Types of laser | 24.02.2021 | |
| 24 | 25.02.2021 | 8.30-9.20am | D | III | Solid state lasers | 25.02.2021 | |
| 25 | 27.02.2021 | 10.30-11.20 am | F | III | Ruby laser | 27.02.2021 | |
| 26 | 01.03.2021 | 10.30-11.20 am | A | III | Nd:YAG laser | 01.03.2021 | |
| 27 | 03.03.2021 | 9.30-10.20am | C | III | Video demonstration | 03.03.2021 | |
| 28 | 06.03.2021 | 10.30-11.20 am | F | III | semiconductor laser-Nd:glass laser | 06.03.2021 | |
| 29 | 08.03.2021 | 10.30-11.20 am | A | III | Gas lasers-He:Ne laser | 08.03.2021 | |
| 30 | 10.03.2021 | 9.30-10.20am | C | III | Class test | 10.03.2021 | |
| 31 | 11.03.2021 | 8.30-9.20am | D | III | CO ₂ laser | 11.03.2021 | |
| 32 | 15.03.2021 | 10.30-11.20 am | F | III | Argon ion laser | 15.03.2021 | |
| 33 | 16.03.2021 | 10.30-11.20 am | A | III | Liquid laser -Dye laser | 16.03.2021 | |


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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|---------|-------------|----------------|-------|------|------------------------------------|------------------------|------------|
| 34 | 18.03.2021 | 9.30-10.20am | C | III | Video Demonstration | 18.03.2021 | |
| 35 | 19.03.2021 | 8.30-9.20am | D | III | Revision | 19.03.2021 | |
| UNIT-IV | | | | | | | |
| 36 | 22.03.2021 | 10.30-11.20 am | F | IV | Laser drilling | 22.03.2021 | |
| 37 | 23.03.2021 | 10.30-11.20 am | A | IV | laser welding | 23.03.2021 | |
| 38 | 25.03.2021 | 9.30-10.20am | C | IV | laser cutting | 25.03.2021 | |
| 39 | 26.03.2021 | 8.30-9.20am | D | IV | lasers in environmental analysis | 30.03.2021 | I CIA Test |
| 40 | 30.03.2021 | 10.30-11.20 am | F | IV | laser remote sensing | 31.03.2021 | |
| 41 | 31.03.2021 | 10.30-11.20 am | A | IV | LIDAR | 01.04.2021 | |
| 42 | 01.04.2021 | 10.30-11.20 am | A | IV | Video Demonstration | 03.04.2021 | |
| 43 | 03.04.2021 | 9.30-10.20am | C | IV | Raman LIDAR | 05.04.2021 | |
| 44 | 05.04.2021 | 8.30-9.20am | D | IV | Applications of lasers in medicine | 07.04.2021 | |
| 45 | 08.04.2021 | 10.30-11.20 am | A | IV | Applications of lasers in surgery | 08.04.2021 | |

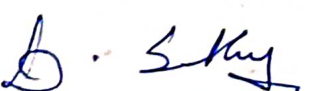


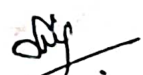
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| Sl No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|----------------|-------|------|--|------------------------|--------------------|
| 46 | 12.04.2021 | 9.30-10.20am | C | IV | - | - | Semester Practical |
| UNIT-V | | | | | | | |
| 47 | 15.04.2021 | 8.30-9.20am | D | V | Principle of Holography | 17.04.2021 | Semester Practical |
| 48 | 17.04.2021 | 10.30-11.20 am | F | V | recording and reconstruction of Hologram | 17.04.2021 | |
| 49 | 19.04.2021 | 10.30-11.20 am | A | V | Characteristics of Holograms | 19.04.2021 | |
| 50 | 21.04.2021 | 9.30-10.20am | C | V | Types of Holograms | 21.04.2021 | |
| 51 | 22.04.2021 | 8.30-9.20am | D | V | Types of Holograms | 22.04.2021 | |
| 52 | 24.04.2021 | 10.30-11.20 am | F | V | Applications of Holography- Holographic Interferometry | 24.04.2021 | |
| 53 | 26.04.2021 | 10.30-11.20 am | A | V | Holographic computer memories | 26.04.2021 | |
| 54 | 28.04.2021 | 9.30-10.20am | C | V | Data encoding and in Hologram | 28.04.2021 | |
| 55 | 29.04.2021 | 8.30-9.20am | D | V | Data encoding and in Hologram | 29.04.2021 | |
| 56 | 03.05.2021 | 10.30-11.20 am | F | V | non-destructive testing of artificial heart valves | 03.05.2021 | |
| 57 | | 10.30-11.20 am | A | V | | | |
| 58 | | 9.30-10.20am | C | V | | | |


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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Online/ Off line -Class Lesson Plan

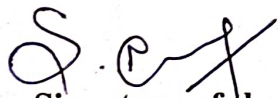
Academic Year 2020-2021[Even Semester]

Department: Physics

| | | |
|----------------------------|---|---|
| Class | : | II BSc Mathematics- Aided |
| Semester | : | IV |
| Name of the Faculty | : | Dr.S.Nazarath Begum |
| Title of the Course | : | Allied Physics Practicals-II |
| Subject Code | : | 18UAPH4P1 |
| ICT Tools used | : | Google class room |
| Text books | : | Practical Physics - Ouseph, Srinivasan & Vijayendran, |
| Reference books | : | Practical Physics – P. R. Sasi Kumar, PHI |
| e-resources | : | |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-----------------|-------|------|---|------------------------|---------|
| 1 | 6.01.2021 | 11.30 to 1.20pm | C | | Demo all practical's | 6.01.2021 | |
| 2 | 18.01.2021 | 11.30 to 1.20pm | C | I | Young's modulus – Cantilever – depression | 25.01.2021 | |
| 3 | 25.01.2021 | 11.30 to 1.20pm | C | II | Lee's disc – Thermal Conductivity | 2.02.2021 | |
| 4 | 2.02.2021 | 11.30 to 1.20pm | C | III | Transistor Characteristics (CE mode) | 9.02.2021 | |
| 5 | 9.02.2021 | 11.30 to 1.20pm | C | IV | Viscosity- capillary flow | 17.02.2021 | |
| 6 | 17.02.2021 | 11.30 to 1.20pm | C | V | Spectrometer Grating – Normal incidence | 24.02.2021 | |

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|----|------------|-----------------------|---|------|--|------------|--|
| 7 | 24.02.2021 | 11.30 to 1.20pm | C | VI | Newton's rings - Refractive Index of lens | 3.03.2021 | |
| 8 | 3.03.2021 | 11.30 to 1.20pm | C | VII | NOR as universal gate | 10.03.2021 | |
| 9 | 10.03.2021 | 11.30 to 1.20pm | C | VIII | NAND as universal gate | 18.03.2021 | |
| 10 | 18.03.2021 | 11.30 to 1.20pm | C | IX | LCR parallel circuit | 25.03.2021 | |
| 11 | 25.03.2021 | 11.30 to 1.20pm | C | X | Calibration of low range Ammeter- Potentiometer | 25.03.2021 | |



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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Online-Class Lesson Plan

Academic Year 2020-2021 [Even Semester]

Department: Physics

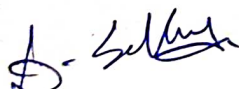
| | | |
|---------------------|---|---|
| Class | : | II BSc Physics |
| Semester | : | IV |
| Name of the Faculty | : | Dr. D. Sathya |
| Title of the Course | : | Physics Practicals-IV |
| Subject Code | : | 18UCPH4P1 |
| ICT Tools used | : | Google Class room |
| Text books | : | Practical Physics- St. Joseph college, Trichy |
| Reference books | : | Ouseph, Srinivasan & Vijayendran, Practical Physics |
| e-resources | : | Google Class room- Videos |

| Sl. No | Actual Date | Order | Practicals | Date-Topics Covered on | Remarks |
|--------|-------------|-------|--|------------------------|---------|
| 1 | 04.01.2021 | A | 1) A) Write a C++ to read any two numbers through the key board and to perform simple arithmetic operations (i.e. addition, subtraction, multiplication and division) and display the result using cin and cout functions. Use do-while loop. B) Write a C++ to find the sum of the series using for loop . a) Sum = $1 + 3 + 5 + \dots + n$ b) Sum = $1 + 2^2 + 4^2 + \dots + n^2$ | 04.01.2021 | |
| 2 | 12.01.2021 | A | 2) Write a C++ to find the factorial of a number by using function declaration with/without using the return statement. | 12.01.2021 | |
| 3 | 22.01.2021 | A | 3) Write a C++ to read a set numbers from a standard input device and to find out the largest number in the given array using function declaration . Also sort them in the ascending or the descending order. | 22.01.2021 | |

Signature of the Faculty

Signature of the HOD

| Sl. No | Actual Date | Order | Practicals | Date-Topics Covered on | Remarks |
|--------|-------------|-------|--|------------------------|---------|
| 4 | 30.01.2021 | A | 4) Develop a program in C++ to calculate the Young's modulus of a material from the data obtained from uniform bending method. | 30.01.2021 | |
| 5 | 18.02.2021 | A | 5) Write a C++ to calculate the thickness of a wire by air wedge method. | 18.02.2021 | |
| 6 | 22.02.2021 | A | 6) Write a C++ to generate a series of Fibonacci numbers using constructor where the constructor member function has been defined in the scope of class definition out of the definition using the scope resolution operator. | 22.02.2021 | |
| 7 | 01.03.2021 | A | 7) Write a C++ to read the following information from the keyboard in which basic class consists of Name, Roll No. and sex. The derived class contains the data member's height and weight. Display the contents of the class using inheritance concept . | 01.03.2021 | |
| 8 | 01.03.2021 | A | 8) Write a C++ to find the period of a pendulum of given length L, in a gravitational field. Accept the required values using the keyboard. Also display the results. | 01.03.2021 | |
| 9 | 08.03.2021 | A | 9) Develop a program in C++ to calculate the Young's modulus of a material from the data obtained from uniform bending method. | 08.03.2021 | |
| 10 | 08.03.2021 | A | 10) Write a C++ to calculate the thickness of a wire by air wedge method. | 08.03.2021 | |


Signature of the Faculty


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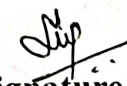
SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)
Rahmath Nagar, Tirunelveli - 627 011
Online-Class Lesson Plan
Academic Year 2020-2021 [Even Semester]

Department: Physics

| | | |
|----------------------------|---|--|
| Class | : | II B.Sc. Mathematics (Aided) |
| Semester | : | IV |
| Name of the Faculty | : | Dr. S.Nazarath Begum |
| Title of the Course | : | Allied Physics-II |
| Subject Code | : | 18UAPH41 |
| ICT Tools used | : | Google class room |
| Text books | : | 1. Modern Physics – Kiruthiga Sivaprasath – (15 th edition) – S.Chand & Co., New Delhi. |
| Reference books | : | 1. Modern Physics – R.Murugesan 2. Electricity and Magnetism |
| e-resources | : | Power Point |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|---------------------------------|--------------------------------------|------------------------|---------|
| 1 | 4.01.2021 | 12.30 to 1.20 pm | A | I-Relativity and Wave Mechanics | Frame of reference | 4.01.2021 | |
| 2 | 5.01.2021 | 10.30 to 11.30 am | B | | Galilean transformation | 5.01.2021 | |
| 3 | 8.01.2021 | 11.30 to 12.20 pm | E | | Postulates | 8.01.2021 | |
| 4 | 11.01.2021 | 9.30 to 10.20 am | F | | Lorentz transformation | 11.01.2021 | |
| 5 | 12.02.2021 | 12.30 to 1.20 pm | A | | Lorentz transformation-Expression | 12.02.2021 | |
| 6 | 13.02.2021 | 10.30 to 11.30 am | B | | de Broglie's theory of matter waves | 13.02.2021 | |
| 7 | 20.01.2021 | 11.30 to 12.20 pm | E | | Expression for de Broglie wavelength | 20.01.2021 | |


Signature of the Faculty

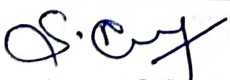

Signature of the HOD


| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|--------------------|--------------------------------------|------------------------|-----------------|
| 8 | 21.01.2021 | 9.30 to 10.20 am | F | | Expression for de Broglie wavelength | 21.01.2021 | |
| 9 | 22.01.2021 | 12.30 to 1.20 pm | A | | Davison and Germer experiment | 23.01.2021 | Class Cancelled |
| 10 | 23.01.2021 | 10.30 to 11.30 am | B | | Davison and Germer experiment | 28.01.2021 | |
| 11 | 28.01.2021 | 11.30 to 12.20 pm | E | | Problems discussed | 30.01.2021 | Thai Boosam |
| 12 | 29.01.2021 | 9.30 to 10.20 am | F | | Class test | 01.02.2021 | |
| 13 | 30.01.2021 | 12.30 to 1.20 pm | A | II-Nuclear Physics | Nuclear structure | 4.02.2021 | |
| 14 | 01.02.2021 | 10.30 to 11.30 am | B | | Nuclear structure | 5.02.2021 | |
| 15 | 4.02.2021 | 11.30 to 12.20 pm | E | | Properties of nucleus | 6.02.2021 | |
| 16 | 5.02.2021 | 9.30 to 10.20 am | F | | Properties of nucleus | 8.02.2021 | |
| 17 | 6.02.2021 | 12.30 to 1.20 pm | A | | Packing fraction | 11.02.2021 | |
| 18 | 8.02.2021 | 10.30 to 11.30 am | B | | Binding energy | 11.02.2021 | |
| 19 | 11.02.2021 | 11.30 to 12.20 pm | E | | BE/A curve | 12.02.2021 | |
| 20 | 12.02.2021 | 9.30 to 10.20 am | F | | Nuclear forces | 15.02.2021 | |
| 21 | 15.02.2021 | 12.30 to 1.20 pm | A | | Nuclear stability | 16.02.2021 | |


Signature of the Faculty

Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|--|--|------------------------|---------|
| 22 | 16.02.2021 | 10.30 to 11.30 am | B | | Liquid drop model | 19.02.2021 | |
| 23 | 19.02.2021 | 11.30 to 12.20 pm | E | | Liquid drop model | 20.02.2021 | |
| 24 | 20.02.2021 | 9.30 to 10.20 am | F | | Class test | 22.02.2021 | |
| 25 | 22.02.2021 | 12.30 to 1.20 pm | A | III- Electricity and Electromagnetism | Charge, Current | 23.02.2021 | |
| 26 | 23.02.2021 | 10.30 to 11.30 am | B | | Potential difference, Resistance & Resistivity | 26.02.2021 | |
| 27 | 26.02.2021 | 11.30 to 12.20 pm | E | | Ohm's law, Kirchoff's law | 27.02.2021 | |
| 28 | 27.02.2021 | 9.30 to 10.20 am | F | | Potentiometer, Principles | 01.03.2021 | |
| 29 | 01.03.2021 | 12.30 to 1.20 pm | A | | Calibration of Voltmeter | 2.03.2021 | |
| 30 | 2.03.2021 | 10.30 to 11.30 am | B | | Capacitor, LCR series circuit | 5.03.2021 | |
| 31 | 5.03.2021 | 11.30 to 12.20 pm | E | | LCR series circuit | 6.03.2021 | |
| 32 | 6.03.2021 | 9.30 to 10.20 am | F | | LCR parallel circuit | 8.03.2021 | |
| 33 | 8.03.2021 | 12.30 to 1.20 pm | A | | LCR parallel circuit | 9.03.2021 | |
| 34 | 9.03.2021 | 10.30 to 11.30 am | B | | Self induction, self inductance of toroidal solenoid | 12.03.2021 | |
| 35 | 12.03.2021 | 11.30 to 12.20 pm | E | | mutual inductance between coils | 13.03.2021 | |


Signature of the Faculty


Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|----------------------|-----------------------------|------------------------|-----------------------------|
| 36 | 15.03.2021 | 9.30 to 10.20 am | F | | Class Test | 15.03.2021 | |
| 37 | 16.03.2021 | 12.30 to 1.20 pm | A | IV-Basic Electronics | Semiconductor diode | 16.03.2021 | |
| 38 | 17.03.2021 | 10.30 to 11.30 am | B | | Diode Characteristics | 17.03.2021 | |
| 39 | 20.03.2021 | 11.30 to 12.20 pm | E | | Diode Characteristics | 22.03.2021 | TANCET-Exam Class Cancelled |
| 40 | 22.03.2021 | 9.30 to 10.20 am | F | | Zener diode characteristics | 23.03.2021 | |
| 41 | 23.03.2021 | 12.30 to 1.20 pm | A | | Zener diode characteristics | 24.03.2021 | |
| 42 | 24.03.2021 | 10.30 to 11.30 am | B | | Regulation with Zener diode | 27.03.2021 | |
| 43 | 27.03.2021 | 11.30 to 12.20 pm | E | | Bridge rectifier | 27.03.2021 | |
| 44 | 30.03.2021 | 9.30 to 10.20 am | F | | Bridge rectifier | 30.03.2021 | |
| 45 | 31.03.2021 | 12.30 to 1.20 pm | A | | Biasing of transistor | 31.03.2021 | |
| 46 | 01.04.2021 | 10.30 to 11.30 am | B | | RC Coupled Amplifier | 01.04.2021 | |
| 47 | 6.04.2021 | 11.30 to 12.20 pm | E | | RC Coupled Amplifier | 6.04.2021 | |


Signature of the Faculty


Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|-----------------------|---|------------------------|---------|
| 48 | 7.04.2021 | 9.30 to 10.20 am | F | | Class Test | 7.04.2021 | |
| 49 | 8.04.2021 | 12.30 to 1.20 pm | A | V-Digital Electronics | Basic logic gates | 8.04.2021 | |
| 50 | 9.04.2021 | 10.30 to 11.20 am | B | | NOR, NAND gates – EX – OR gate | 8.04.2021 | |
| 51 | 16.04.2021 | 11.30 to 12.20 pm | E | | Boolean equations | 9.04.2021 | |
| 52 | 17.04.2021 | 9.30 to 10.20 am | F | | Boolean equations | 16.04.2021 | |
| 53 | 19.04.2021 | 12.30 to 1.20 pm | A | | logic circuit from table | 17.04.2021 | |
| 54 | 20.04.2021 | 10.30 to 11.20 am | B | | logic circuit from table | 19.04.2021 | |
| 55 | 23.04.2021 | 11.30 to 12.20 pm | E | | NOR gates as universal building blocks | 20.04.2021 | |
| 56 | 24.04.2021 | 9.30 to 10.20 am | F | | NAND gates as universal building blocks | 23.04.2021 | |
| 57 | 26.04.2021 | 12.30 to 1.20 pm | A | | Binary adder | 24.04.2021 | |
| 58 | 27.04.2021 | 10.30 to 11.20 am | B | | Half adder | 26.04.2021 | |
| 59 | 30.04.2021 | 11.30 to 12.20 pm | E | | Full Adder | 27.04.2021 | |
| 60 | 3.05.2021 | 9.30 to 10.20 am | F | | Class Test | 30.04.2021 | |

**SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)**

Rahmath Nagar, Tirunelveli - 627 011

Online-Class Lesson Plan

Academic Year 2020-2021 [Even Semester]

Department: Physics


| | | |
|---------------------|---|--|
| Class | : | II B.Sc. Chemistry |
| Semester | : | IV |
| Name of the Faculty | : | Dr.R.Kumuthini |
| Title of the Course | : | Allied Physics-II |
| Subject Code | : | 18UAPH41 |
| ICT Tools used | : | Google classroom |
| Text books | : | Modern Physics-R. Murugesan and Krithiga Sivaprasath. Introduction to Integrated Electronics, Digital and Analog – V.Vijayendran and S. Viswanathan |
| Reference books | : | Electricity and Magnetism – R.Murugesan |
| e-resources | : | Power Point Presentation |
| | | |

| SL No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|-------|-------------|-------------|-------|------|--|------------------------|---------|
| 1 | 05.01.2021 | 10.30-11.20 | B | I | Introduction to relative motion | 05.01.2021 | |
| 2 | 07.01.2021 | 10.30-11.20 | D | | Frame of reference | 05.01.2021 | |
| 3 | 08.01.2021 | 12.30-1.20 | E | | Galilean transformation | 05.01.2021 | |
| 4 | 11.01.2021 | 08.30-09.20 | F | | Class- Test | 07.01.2021 | |
| 5 | 13.01.2021 | 10.30-11.20 | B | | Postulates of special theory of relativity waves | 08.01.2021 | |

Signature of the Faculty

Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------|-------|------|--|------------------------|---------|
| 6 | 19.01.2021 | 10.30-11.20 | D | | De-Broglie theory of matter waves | 11.01.2021 | |
| 7 | 20.01.2021 | 12.30-1.20 | E | | Expression for De-Broglie wavelength | 19.01.2021 | |
| 8 | 21.01.2021 | 8.30-9.20 | F | | Class -Test | 20.01.2021 | |
| 10 | 27.01.2021 | 10.30-11.20 | D | | Basics of nucleus and its constitution | 21.01.2021 | |
| 11 | 28.01.2021 | 12.30-1.20 | E | | Nuclear structure | 27.01.2021 | |
| 12 | 29.01.2021 | 8.30-9.20 | F | | Properties of nucleus | 29.01.2021 | |
| 13 | 01.02.2021 | 10.30-11.20 | B | | Packing fraction | 01.02.2021 | |
| 14 | 03.02.2021 | 10.30-11.20 | D | II | Class-Test | 03.02.2021 | |
| 15 | 04.02.2021 | 12.30-1.20 | E | | Binding energy | 04.02.2021 | |
| 16 | 05.02.2021 | 8.30-9.20 | F | | Binding energy/A curve | 05.02.2021 | |
| 17 | 08.02.2021 | 10.30-11.20 | B | | Nuclear forces | 08.02.2021 | |
| 18 | 10.02.2021 | 10.30-11.20 | D | | Nuclear stability | 10.02.2021 | |
| 19 | 11.02.2021 | 12.30-1.20 | E | | Discussion of Assignment | 11.02.2021 | |
| 20 | 12.02.2021 | 8.30-9.20 | F | | CIA-I | CIA-I | |


Signature of the Faculty


Signature of the HOD

| No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|----|-------------|-------------|-------|------|----------------------------|------------------------|---------|
| 21 | 16.02.2021 | 10.30-11.20 | B | | Liquid drop model | 16.02.2021 | |
| 22 | 18.02.2021 | 10.30-11.20 | D | | Liquid drop model- contd | 18.02.2021 | |
| 23 | 19.02.2021 | 12.30-1.20 | E | | Charge | 19.02.2021 | |
| 24 | 20.02.2021 | 8.30-9.20 | F | | Current | 19.02.2021 | |
| 25 | 23.02.2021 | 10.30-11.20 | B | | Potential difference | 19.02.2021 | |
| 26 | 25.02.2021 | 10.30-11.20 | D | | Resistance | 25.02.2021 | |
| 27 | 26.02.2021 | 12.30-1.20 | E | | Resistivity | 25.02.2021 | |
| 28 | 27.02.2021 | 8.30-9.20 | F | | Class-Test | 26.02.2021 | |
| 29 | 02.03.2021 | 10.30-11.20 | B | III | Ohm's law | 05.03.2021 | |
| 30 | 05.03.2021 | 12.30-1.20 | E | | Kirchoff's current law | 05.03.2021 | |
| 31 | 06.03.2021 | 8.30-9.20 | F | | Kirchoff's voltage law | 05.03.2021 | |
| 32 | 09.03.2021 | 10.30-11.20 | B | | Potentiometer | 11.03.2021 | |
| 33 | 11.03.2021 | 10.30-11.20 | D | | Principle of potentiometer | 11.03.2021 | |
| 34 | 12.03.2021 | 12.30-1.20 | E | | Calibration of voltmeter | 12.03.2021 | |
| 35 | 13.03.2021 | 12.30-1.20 | E | | Class-test | 12.03.2021 | |




Signature of the Faculty



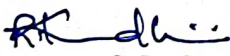
Signature of the HOD

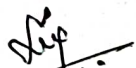
| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------|-------|------|--|------------------------|---------|
| 36 | 15.03.2021 | 8.30-9.20 | F | | capacitor | 15.03.2021 | |
| 37 | 17.03.2021 | 10.30-11.20 | B | | LCR series circuit | 19.03.2021 | |
| 38 | 19.03.2021 | 10.30-11.20 | D | | LCR parallel circuit | 24.03.2021 | |
| 39 | 20.03.2021 | 12.30-1.20 | E | | Self-induction | 26.03.2021 | |
| 40 | 22.03.2021 | 8.30-9.20 | F | | CIA-II | CIA-II | |
| 41 | 24.03.2021 | 10.30-11.20 | B | IV | Self inductance of a toroidal solenoid | 26.03.2021 | |
| 42 | 26.03.2021 | 10.30-11.20 | D | | Mutual inductance between two coils | 26.03.21 | |
| 43 | 27.03.2021 | 12.30-1.20 | E | | Class-Test | 27.03.21 | |
| 44 | 30.03.2021 | 8.30-9.20 | F | | Semiconductor diode | 30.03.21 | |
| 45 | 01.04.2021 | 10.30-11.20 | B | | Diode characteristics | 01.04.2021 | |
| 46 | 05.04.2021 | 10.30-11.20 | D | | Zener diode characteristics | 05.04.2021 | |
| 47 | 07.04.2021 | 12.30-1.20 | F | | Regulation with zener diode | 07.04.2021 | |
| 48 | 09.04.2021 | 8.30-9.20 | B | V | Bridge rectifier | 09.04.2021 | |


Signature of the Faculty


Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------|-------|------|---------------------------------|------------------------|---------|
| 49 | 10.04.2021 | 10.30-11.20 | B | | Biasing of transistor | 10.4.21 | |
| 50 | 15.04.2021 | 10.30-11.20 | D | | RC coupled amplifier | 15.4.21 | |
| 51 | 16.04.2021 | 12.30-1.20 | E | | Basic logic gates | 16.4.21 | |
| 52 | 17.04.2021 | 8.30-9.20 | F | | NOR,NAND and EX-OR gate | 17.4.21 | |
| 53 | 20.04.2021 | 10.30-11.20 | B | | Boolean equations | 20.4.21 | |
| 54 | 22.04.2021 | 10.30-11.20 | D | | Logic circuit from table | 22.4.21 | |
| 55 | 23.04.2021 | 12.30-1.20 | E | | NAND and NOR as universal gates | 23.4.21 | |
| 56 | 24.04.2021 | 8.30-9.20 | F | | CIA-III | 24.4.21 | |
| 57 | 27.04.2021 | 10.30-11.20 | B | | Binary adder | 27.4.21 | |
| 58 | 29.04.2021 | 10.30-11.20 | D | | Half adder | 29.4.21 | |
| 59 | 30.04.2021 | 12.30-1.20 | E | | Full adder | 30.4.21 | |
| 60 | 03.05.2021 | 8.30-9.20 | F | | Class-Test | 3.5.21 | |
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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

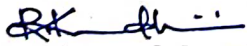
Online-Class Lesson Plan

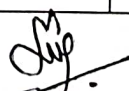
Academic Year 2020-2021 [Even Semester]

Department: Physics


| | |
|---------------------|---|
| Class | : II B.Sc. Chemistry |
| Semester | : IV |
| Name of the Faculty | : Dr.R.Kumuthini |
| Title of the Course | : Allied Physics Practicals-II |
| Subject Code | : 18UAPH4P1 |
| ICT Tools used | : Google Classroom |
| Text books | : Allied Physics-II Laboratory Manual –Dr.S.Nazarath Begam, Dr.R.Kumuthini, Dr.K.V.Amutha |
| Reference books | : Practical Physics – Ouseph, Srinivisan & Vijayendran |
| e-resources | : Videos demonstrating the experiments |


| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------|-------|------|--|------------------------|---------|
| 1 | 05.01.2021 | 11.30-1.20 | B | I | Young's Modulus-Cantilever Pin and Microscope | 08.02.2021 | |
| 2 | 13.01.2021 | 11.30-1.20 | B | II | Transistor characteristics | 16.02.2021 | |
| 3 | 23.01.2021 | 11.30-1.20 | B | III | Basic Logic Gates- NOT,OR, NOR | 23.02.2021 | |
| 4 | 01.02.2021 | 11.30-1.20 | B | IV | Newton's Ring | 23.02.2021 | |
| 5 | 08.02.2021 | 11.30-1.20 | B | V | Lee's Disc-Specific heat capacity of a bad conductor | 02.03.2021 | |


Signature of the Faculty


Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------|-------|------|--|------------------------|---------|
| 6 | 16.02.2021 | 11.30-1.20 | B | VI | Spectrometer Grating -Normal incidence | 02.03.2021 | |
| 7 | 23.02.2021 | 11.30-1.20 | B | VII | Basic Logic Gates- NOT,AND, NAND | 09.03.2021 | |
| 8 | 02.03.2021 | 11.30-1.20 | B | VIII | Viscosity of water - Variable pressure head method. | 09.03.2021 | |


Signature of the Faculty


Signature of the HOD

SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Online-Class Lesson Plan


Academic Year 2020-2021[Odd Semester]

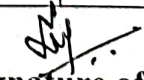
Department: Physics




| | | |
|---------------------|---|---|
| Class | : | III Bsc Physics |
| Semester | : | VI semester |
| Name of the Faculty | : | Dr.S.Nazarath Begum |
| Title of the Course | : | Energy Physics |
| Subject Code | : | 18USPH61 |
| ICT Tools used | : | Google class room |
| Text books | : | Non Conventional Energy Sources, G.D. Rai, Khanna Publishers (4th Ed., 2010). |
| Reference books | : | Non-conventional energy sources, B.H. Khan, McGraw Hill |
| e-resources | : | Power Point |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------------|-------|--------------------------------|---|------------------------|-------------|
| 1. | 7.01.2021 | 8.30 to 9.20 am | D | I- Conventional Energy sources | World's reserve of commercial energy sources and their availability | 7.01.2021 | |
| 2 | 08.01.2021 | 9.30 to 10.20 am | E | | World's reserve of commercial energy sources and their availability | 08.01.2021 | |
| 3 | 19.01.2021 | 8.30 to 9.20 am | D | | various forms of energy | 19.01.2021 | |
| 4 | 20.01.2021 | 9.30 to 10.20 am | E | | renewable and conventional energy systems | 20.01.2021 | |
| 5 | 27.01.2021 | 8.30 to 9.20 am | D | | comparison - coal, oil and natural gas - availability | 27.01.2021 | |
| 6 | 28.01.2021 | 9.30 to 10.20 am | E | | statistical details - applications - merits and demerits. | 3.02.2021 | Thai Boosam |
| 7 | 3.02.2021 | 8.30 to 9.20 am | D | II-NCE | Renewable energy sources - solar energy | 11.02.2021 | |


Signature of the Faculty

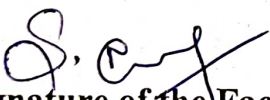

Signature of the HOD


| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------------|-------|-----------------------|---|------------------------|-----------------------------------|
| 8 | 4.02.2021 | 9.30 to 10.20 am | E | | nature of solar radiation - components - solar heaters | | |
| 9 | 10.02.2021 | 8.30 to 9.20 am | D | | crop dryers - space cooling - solar ponds | 11.02.2021 | CIA-I |
| 10 | 11.02.2021 | 9.30 to 10.20 am | E | | solar cookers - water desalination | 18.02.2021 | |
| 11. | 18.02.2021 | 8.30 to 9.20 am | D | | photovoltaic generation basics | 19.02.2021 | |
| 12 | 19.02.2021 | 9.30 to 10.20 am | E | | merits and demerits of solar energy. | 19.02.2021 | |
| 13 | 25.02.2021 | 8.30 to 9.20 am | D | III- Biomass energy | Biomass energy - classification | 25.02.2021 | |
| 14 | 26.02.2021 | 9.30 to 10.20 am | E | | photosynthesis | 26.02.2021 | |
| 15 | 4.03.2021 | 8.30 to 9.20 am | D | | biomass conversion process | 5.03.2021 | Ayya Vaikunda Swami Jeyanthi |
| 16 | 5.03.2021 | 9.30 to 10.20 am | E | | Kachara gas plants | 11.03.2021 | |
| 17 | 11.03.2021 | 8.30 to 9.20 am | D | | Materials used for bio gas generation - wood gasification | 12.03.2021 | |
| 18 | 12.03.2021 | 9.30 to 10.20 am | E | | ethanol from wood - advantages and disadvantages | 13.03.2021 | |
| 19 | 19.03.2021 | 8.30 to 9.20 am | D | IV- Geothermal Energy | Geothermal energy, Estimate of Geo thermal power | 13.03.2021 | CIA-II |
| 20 | 20.03.2021 | 9.30 to 10.20 am | E | | Nature of Geo thermal fields- | 26.03.2021 | Class Cancelled- TANCET-2021 Exam |
| 21 | 26.03.2021 | 8.30 to 9.20 am | D | | Geo thermal sources | 26.03.2021 | |
| 22 | 27.03.2021 | 9.30 to 10.20 am | E | | Arrangements for hybrid plants- | 27.03.2021 | |


Signature of the Faculty


Signature of the HOD

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|------------------|-------|---------------------------------|--|------------------------|---------|
| 23 | 5.04.2021 | 8.30 to 9.20 am | D | | Arrangements for hybrid plants- | 27.03.2021 | |
| 24 | 6.04.2021 | 9.30 to 10.20 am | E | | Applications of Geo thermal energy. | 5.04.2021 | |
| 25 | 15.04.2021 | 8.30 to 9.20 am | D | V- Wind Energy and Ocean Energy | The nature of the wind - site selection consideration | 6.04.2021 | |
| 26 | 16.04.2021 | 9.30 to 10.20 am | E | | Basic components of WECS | 15.04.2021 | |
| 27 | 22.04.2021 | 8.30 to 9.20 am | D | | Advantage and disadvantages of WECS-Application of wind energy | 16.04.2021 | |
| 28 | 23.04.2021 | 9.30 to 10.20 am | E | | ocean thermal energy conversion (OTEC) | 22.04.2021 | |
| 29 | 29.04.2021 | 8.30 to 9.20 am | D | | Methods of ocean thermal electric power generation | 23.04.2021 | |
| 30 | 30.04.2021 | 9.30 to 10.20 am | E | | Bio fouling- Hybrid cycle. | 29.04.2021 | |


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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Lesson Plan

Academic Year 2020-2021 [Even Semester]

Department: Physics

| | | |
|---------------------|---|---|
| Class | : | III B.Sc. Physics |
| Semester | : | VI |
| Name of the Faculty | : | Dr.R.Kumuthini |
| Title of the Course | : | Personality Development |
| Subject Code | : | 18USPD62 |
| ICT Tools used | : | Google Classroom |
| Text books | : | Personality Development - Dr. A.H.Mohideen Badushah and Prof.H.M.Sulthan Ahthar. |
| Reference books | : | Personality Development – Dr.S.Narayana Rajan, Dr.B.Rajasekaran, G.Venkadasalapathi, V.Vijuresh Nayaham, and Herald .M. Dhas. |
| e-resources | : | Power-point presentation. |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------|-------|------|-------------------------|------------------------|---------|
| 1 | 08.01.2021 | 10.30-11.30 | E | I | Personality | 04.01.2021 | |
| 2 | 11.01.2021 | 10.30-11.30 | F | | Personality Traits | 05.01.2021 | |
| 3 | 20.01.2021 | 10.30-11.30 | E | | Theories of Personality | 06.01.2021 | |
| 4 | 21.01.2021 | 10.30-11.30 | F | | Self-Awareness | 07.01.2021 | |
| 5 | 28.01.2021 | 10.30-11.30 | E | | SWOT Analysis | 08.01.2021 | |


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RK Kumuthini

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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------|-------|------|--|------------------------|---------|
| 6 | 29.01.2021 | 10.30-11.30 | F | | Goal Setting | 12.01.2021 | |
| 7 | 04.02.2021 | 10.30-11.30 | E | II | Self Monitoring | 18.01.2021 | |
| 8 | 05.02.2021 | 10.30-11.30 | F | | Perception | 19.01.2021 | |
| 9 | 11.02.2021 | 10.30-11.30 | E | | Errors in Perception | 20.01.2021 | |
| 10 | 12.02.2021 | 10.30-11.30 | F | | Attitude | 22.01.2021 | |
| 11 | 19.02.2021 | 10.30-11.30 | E | | Barriers and Methods to Attitude change | 25.01.2021 | |
| 12 | 20.02.2021 | 10.30-11.30 | F | | Assertiveness | 30.01.2021 | |
| 13 | 26.02.2021 | 10.30-11.30 | E | III | Team Building | 11.02.2021 | |
| 14 | 27.02.2021 | 10.30-11.30 | F | | Leadership Skills | 12.02.2021 | |
| 15 | 05.03.2021 | 10.30-11.30 | E | | Theories of leadership | 19.02.2021 | |
| 16 | 06.03.2021 | 10.30-11.30 | F | | Negotiation Skills | 20.02.2021 | |
| 17 | 12.03.2021 | 10.30-11.30 | E | | Conflict Management | 26.02.2021 | |
| 18 | 15.03.2021 | 10.30-11.30 | F | IV | Levels and Resolution of conflicts , Communication | 12.03.2021 | |


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| | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|----|-------------|-------------|-------|------|-------------------------------|------------------------|---------|
| 19 | 20.03.2021 | 10.30-11.30 | E | | Barriers of Communication | 13.03.2021 | |
| 20 | 22.03.2021 | 10.30-11.30 | F | | Transactional Analysis | 22.03.2021 | |
| 21 | 27.03.2021 | 10.30-11.30 | E | | Emotional intelligence | 27.3.21 | |
| 22 | 30.03.2021 | 10.30-11.30 | F | | Stress Management | 30.3.21 | |
| 23 | 06.04.2021 | 10.30-11.30 | E | | Steps to manage stress | 06.4.21 | |
| 24 | 07.04.2021 | 10.30-11.30 | F | | Social Graces | 7.4.21 | |
| 25 | 16.04.2021 | 10.30-11.30 | E | V | Ways to acquire Social Graces | 16.4.21 | |
| 26 | 17.04.2021 | 10.30-11.30 | F | | Table Manners | 17.4.21 | |
| 27 | 23.04.2021 | 10.30-11.30 | E | | Dress Code | 23.4.21 | |
| 28 | 24.04.2021 | 10.30-11.30 | F | | Group Discussion | 24.4.21 | |
| 29 | 30.04.2021 | 10.30-11.30 | E | | Interview | 30.4.21 | |
| 30 | 03.05.2021 | 10.30-11.30 | F | | Types of interview skills | 3.5.21 | |


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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

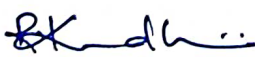
Lesson Plan

Academic Year 2020-2021 [Even Semester]

Department: Physics


| | |
|---------------------|--|
| Class | : III B.Sc. Physics |
| Semester | : VI |
| Name of the Faculty | : Dr.R.Kumuthini |
| Title of the Course | : Physics Practicals-VIII |
| Subject Code | : 18UCPH6P2 |
| ICT Tools used | : Google Classroom |
| Text books | : Electronics Laboratory Manual –Dr.M.Mohamed Roshan, Dr.R.Kumuthini. |
| Reference books | : - |
| e-resources | : Videos demonstrating the experiments |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-----------|-------|------|--|------------------------|---------|
| | 04.01.2021 | 9.30-1.20 | A | I | NOR as Universal Gate | 02.02.2021 | |
| 2 | 12.01.2021 | 9.30-1.20 | A | II | Charateristics of Opto-Electronic Device-LDR | 04.02.2021 | |
| | 22.01.2021 | 9.30-1.20 | A | III | Hartley's Oscillator | 06.02.2021 | |
| 4 | 30.01.2021 | 9.30-1.20 | A | IV | Differentiator and Integrator using Op-Amp | 15.02.2021 | |
| 5 | 06.02.2021 | 9.30-1.20 | A | V | Dual Power Supply | 22.02.2021 | |


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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-----------|-------|------|--|------------------------|---------|
| 6 | 15.02.2021 | 9.30-1.20 | A | VI | Monostable Multivibrator using IC 555 | 01.03.2021 | |
| 7 | 22.02.2021 | 9.30-1.20 | A | VII | Charateristics of Opto-Electronic Device-LED | 08.03.2021 | |
| 8 | 01.03.2021 | 9.30-1.20 | A | VIII | Record work | 16.03.2021 | |


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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Online-Class Lesson Plan

Academic Year 2020-2021 [Even Semester]

Department: Physics

| | | |
|---------------------|---|---|
| Class | : | III BSc-Physics |
| Semester | : | VI |
| Name of the Faculty | : | Dr.M.Mohamed Roshan |
| Title of the Course | : | Communication Electronics |
| Subject Code | : | 18UEPH6A |
| ICT Tools used | : | Google glass room |
| Text books | : | Principles of communications – K.S.Srinivasan (Anuradha Publications) |
| Reference books | : | Communication Electronics – Loius E Frenzel (TMH) |
| e-resources | : | Power point |

| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|------|---|------------------------|---------|
| 1 | 5.01.2021 | 11.30 to 12.20 pm | B | I | Evolution of communication & Introduction to communication system | 5.01.2021 | |
| 2 | 6.01.2021 | 12.30 to 1.20pm | C | I | Types and ranges of frequency used in communication systems | 6.01.2021 | |
| 3 | 8.01.2021 | 8.30 to 9.20 am | E | I | Why modulation is essential? | 8.01.2021 | |
| 4 | 11.01.2021 | 9.30 to 10.20 am | F | I | Signal to noise ratio | 11.01.2021 | |
| 5 | 13.01.2021 | 11.30 to 12.20 pm | B | I | Modulation and its types | 13.01.2021 | |
| 6 | 18.01.2021 | 12.30 to 1.20pm | C | I | Amplitude modulation theory & equations | 18.01.2021 | |
| 7 | 20.01.2021 | 8.30 to 9.20 am | E | I | Frequency spectrum of AM | 20.01.2021 | |

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| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|------|--|------------------------|-------------------------|
| 8 | 21.01.2021 | 9.30 to 10.20 am | F | I | AM Transmitter | 21.01.2021 | |
| 9 | 23.01.2021 | 11.30 to 12.20 pm | B | I | AM Super heterodyne receiver | 23.01.2021 | |
| 10 | 25.01.2021 | 12.30 to 1.20pm | C | I | Frequency modulation | 25.01.2021 | |
| 11 | 28.01.2021 | 8.30 to 9.20 am | E | I | Frequency spectrum of FM and Transmitter | 29.01.2021 | Thai Boosam |
| 12 | 29.01.2021 | 9.30 to 10.20 am | F | I | Comparison of FM and AM | 01.02.2021 | |
| 13 | 01.02.2021 | 11.30 to 12.20 pm | B | II | Wave and Pulse | 2.02.2021 | |
| 14 | 2.02.2021 | 12.30 to 1.20pm | C | II | Introduction to pulse modulation | 5.02.2021 | |
| 15 | 4.02.2021 | 8.30 to 9.20 am | E | II | Types of Pulse modulation | 5.02.2021 | Ayya Vaikundar jeyanthi |
| 16 | 5.02.2021 | 9.30 to 10.20 am | F | II | Generation of Pulse Amplitude modulation | 8.02.2021 | |
| 17 | 8.02.2021 | 11.30 to 12.20 pm | B | II | Detection of PAM | 9.02.2021 | |
| 18 | 9.02.2021 | 12.30 to 1.20pm | C | II | Generation of Pulse Width Modulation | 12.02.2021 | |
| 19 | 11.02.2021 | 8.30 to 9.20 am | E | II | Detection of PWM & Generation of Pulse Position Modulation | 16.02.2021 | CIA-I |
| 20 | 12.02.2021 | 9.30 to 10.20 am | F | II | Detection of PPM | 17.02.2021 | |
| 21 | 16.02.2021 | 11.30 to 12.20 pm | B | II | Generation and detection of Pulse Code Modulation | 19.02.2021 | |
| 22 | 17.02.2021 | 12.30 to 1.20pm | C | II | Frequency Division Multiplexing | 20.02.2021 | |

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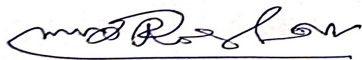
| Sl. No | Actual Date | Time | Order | Unit | Topics Planned | Date-Topics Covered on | Remarks |
|--------|-------------|-------------------|-------|------|---|------------------------|----------------------------------|
| 23 | 19.02.2021 | 8.30 to 9.20 am | E | II | Time Division Multiplexing | 23.02.2021 | |
| 24 | 20.02.2021 | 9.30 to 10.20 am | F | II | Telegraphy and Telemetry | 24.02.2021 | |
| 25 | 23.02.2021 | 11.30 to 12.20 pm | B | III | Digital signal & Analog signal | 26.02.2021 | |
| 26 | 24.02.2021 | 12.30 to 1.20pm | C | III | Principle of digital communication | 27.02.2021 | |
| 27 | 26.02.2021 | 8.30 to 9.20 am | E | III | Characteristics of Data transmission circuits | 2.03.2021 | |
| 28 | 27.02.2021 | 9.30 to 10.20 am | F | III | Distortion, Signal to noise ratio and of data transmission circuits | 3.03.2021 | |
| 29 | 2.03.2021 | 11.30 to 12.20 pm | B | III | Different codes | 5.03.2021 | |
| 30 | 3.03.2021 | 12.30 to 1.20pm | C | III | Digital codes | 5.03.2021 | |
| 31 | 5.03.2021 | 8.30 to 9.20 am | E | III | Modem and its need | 6.03.2021 | |
| 32 | 6.03.2021 | 9.30 to 10.20 am | F | III | Functioning of the Modem | 9.03.2021 | |
| 33 | 9.03.2021 | 11.30 to 12.20 pm | B | III | Networks and their types | 10.03.2021 | |
| 34 | 10.03.2021 | 12.30 to 1.20pm | C | III | Organisation of Networks | 12.03.2021 | |
| 35 | 12.03.2021 | 8.30 to 9.20 am | E | III | Network Protocols | 15.03.2021 | |
| 36 | 15.03.2021 | 9.30 to 10.20 am | F | III | E – mail and Internet | 17.03.2021 | |
| 37 | 17.03.2021 | 11.30 to 12.20 pm | B | IV | Microwave ranges and sources | 18.03.2021 | |
| 38 | 18.03.2021 | 12.30 to 1.20pm | C | IV | Principle of Micro wave links | 22.03.2021 | |
| 39 | 20.03.2021 | 8.30 to 9.20 am | E | IV | Design features of Microwave links & repeaters | 24.03.2021 | Class Cancelled-TANCET-2021 Exam |
| 40 | 22.03.2021 | 9.30 to 10.20 am | F | IV | Long haul systems | 25.03.2021 | |
| 41 | 24.03.2021 | 11.30 to 12.20 pm | B | IV | Submarine cables | 30.03.2021 | |
| 42 | 25.03.2021 | 12.30 to 1.20pm | C | IV | Principle of Satellite communication | 30.03.2021 | |
| 43 | 27.03.2021 | 8.30 to 9.20 am | E | IV | Earth station – construction and working | 3.04.2021 | |

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|----|------------|-------------------|---|----|--|------------|--|
| 43 | 30.03.2021 | 9.30 to 10.20 am | F | IV | Construction and components of satellite | 6.04.2021 | |
| 44 | 1.04.2021 | 11.30 to 12.20 pm | B | IV | Radar principle and systems | 6.04.2021 | |
| 45 | 3.04.2021 | 12.30 to 1.20pm | C | IV | Doppler effect and its application | 7.04.2021 | |
| 46 | 6.04.2021 | 8.30 to 9.20 am | E | IV | Continuous wave radar | 9.04.2021 | |
| 47 | 7.04.2021 | 9.30 to 10.20 am | F | IV | Pulsed radar system. | 12.04.2021 | |
| 48 | 9.04.2021 | 11.30 to 12.20 pm | B | V | Basic principle involved in Fiber communication | 12.04.2021 | |
| 49 | 12.04.2021 | 12.30 to 1.20pm | C | V | Acceptance angle and Numerical aperture | 17.04.2021 | |
| 50 | 16.04.2021 | 8.30 to 9.20 am | E | V | Characteristics of Optical Fibers and advantages | 20.04.2021 | |
| 51 | 17.04.2021 | 9.30 to 10.20 am | F | V | Losses in fiber cables | 20.04.2021 | |
| 52 | 20.04.2021 | 11.30 to 12.20 pm | B | V | Fiber Optic System and Components | 21.04.2021 | |
| 53 | 21.04.2021 | 12.30 to 1.20pm | C | V | Sources Laser diode and LED | 23.04.2021 | |
| 54 | 23.04.2021 | 8.30 to 9.20 am | E | V | Detectors PIN diode and APD | 23.04.2021 | |
| 55 | 24.04.2021 | 9.30 to 10.20 am | F | V | Optical Links and fiber testing | 24.04.2021 | |
| 56 | 27.04.2021 | 11.30 to 12.20 pm | B | V | Splicing types & Mechanical splicing | 27.04.2021 | |
| 57 | 28.04.2021 | 12.30 to 1.20pm | C | V | Fusion splicing | 28.04.2021 | |
| 58 | 30.04.2021 | 8.30 to 9.20 am | E | V | Optical connectors(Permanent and temporary) | 30.04.2021 | |
| 59 | 3.05.2021 | 9.30 to 10.20 am | F | V | Optical communication receiver | 3.05.2021 | |

Signature of the Faculty



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