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DUMKAL COLLEGE

P.O- Basantapur, P.S- Dumkal, Dist.- Murshidabad, West Bengal, Pin- 742406
Aided, Affiliated to the: University of Kalyani Included under section 2(f) & 12 (B) of UGC Act.)

Date: 12.12.2024

NOTICE (Department of physics)

For submission of assignments:

All the student of Semester-I Major Course are hereby instructed to submit their assignments according to the following topics. The hard copy of assignments must be submitted to the Department of Physics on 19.12.2024 at 12:00 pm. No assignments will be accepted after that day.

Assignment for Semester-I Major Course Mathematical physics-1 [PHY-M-T-1]

Write an Assignment on Vector Differentiation [Define directional derivatives and normal derivatives. Define gradient of a scalar field and explain its geometrical interpretation. Define divergence and curl of a vector field.] (15 marks):

Assignment for Semester-I Major Course Electrical circuit and Network Skills

[PHY-SEC-T-1] write an Assignment on Electric Motors. [Single-phase, three-phase & DC motors, basic design. Speed & power of ac motor.] (10 marks):

Principal
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Date: 12.12.2024

NOTICE (Department of Physics)

SUBJECT: 1st Semester Minor Internal Examination 2024

| PAPER/COURSE | DATE | TIME |
|---|------------|----------------|
| PHY-MI-T-01 (MATHEMATICAL PHYSICS-I) | 19/12/2024 | 1:30 - 2:00 PM |


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Date: 12.12.2024

NOTICE (Department of Physics)

For submission of assignments:

All the student of Semester-III Major and SEC Course are hereby instructed to submit their assignments according to the following topics. The hard copy of assignments must be submitted to the Department of Physics on 20.12.2024 at 12:00 pm. No assignments will be accepted after that day.

Assignment for Semester-III Major COURSE Electricity and Magnetism [PHS-M-T-3]

Write an Assignment on Ampere's Circuital Law. [State and Proof Ampere's Circuital Law. Application of Ampere's Circuital Law to (i) infinite straight wire, (ii) infinite planar surface current (iii) Solenoid and (iv) Toroid.] (15 marks)

Assignment for Semester-III Major Renewable Energy and Energy Harvesting [PHS-SEC-T-3]

Write an Assignment on Geothermal Energy [Geothermal energy (Basic idea), Geothermal sources, Applications of geothermal energy, advantages and disadvantages of geothermal energy.] (10 marks)

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Date: 12.12.2024

NOTICE (Department of Physics)

SUBJECT: 3rd Semester Minor Internal Examination 2024

| PAPER/COURSE | DATE | TIME |
|--|------------|----------------|
| PHY-MI-T-03 (Electricity & Magnetism) | 20/12/2024 | 1:30 - 2:00 PM |


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Date: 12.12.2024

NOTICE

(Department of Physics)

For submission of assignments (15 marks):


All the student of Semester-V Honours Course are hereby instructed to submit their assignments according to the following topics. The hard copy of assignments must be submitted to the Department of Physics on 20.12.2024 at 12:00 pm. No assignments will be accepted after that day.


Assignment for Semester-V CC Course [PHY-H-CC-T-11]: Quantum Mechanics and Application]: Write an Assignment on 'Normal and Anomalous Zeeman Effect. Paschen Back and Stark Effect.

Assignment for Semester-V CC Course [PHY-H-CC-T-12]: STATISTICAL MECHANICS]: Write an Assignment on 'Fermi-Dirac Statistics: Fermi-Dirac Distribution Law, Thermodynamic functions of a completely and strongly Degenerate Fermi Gas.]

Assignment for Semester-V DSE Course [PHY-H-DSE-T-01]: Classical Dynamics
Write and Assignment on Geometrical interpretation Space-time: Minkowski space. The invariant interval, light cone and world lines. Space-time diagrams

Assignment for Semester-V DSE Course [PHY-H-DSE-T-02]: Nuclear and Particle Physics
Write an Assignment on Nuclear Liquid drop model
[Approach, semi empirical mass formula and significance of its various terms, condition]


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Date: 12.12.2024

NOTICE

(Department of Physics)

For submission of assignments:

All the student of Semester-V Programme Course are hereby instructed to submit their assignments according to the following topics. The hard copy of assignments must be submitted to the Department of Physics on 21.12.2024 at 12:00 pm. No assignments will be accepted after that day.

Assignment for Semester-V DSE Course [PHY-G-DSE-T-11]: Elements of Modern

Physics: Write an Assignment on Radioactivity [Stability of nucleus; Law of radioactive decay: Mean life and half-life] (15 Marks)

Assignment for Semester-V SEC Course [PHY-G-SEC-T-03]: Electric

Circuit and Network Skills: Write an Assignment on Electric Motors [Single-phase, three-phase & DC motors. Basic design. Interfacing DC or AC sources to control heaters & motors. Speed & power of ac motor] (10 Marks)

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