PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Session-2022-2023

Discipline: Electrical Engg.

Semester: 1st Section-A

Subject: Engg. Physics

Name of the Teaching Faculty: Dr. Niranjan Panda

Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 26.10.22 To Date : 20.02.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
27.10.22	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	
29.10.22	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	
31.10.22	Checking the correctness of physical equations.	Checking the correctness of physical equations.	Checking the correctness of physical equations.	
01.11.22	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	
03.11.22	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	
05.11.22	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	
07.11.22	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	
10.11.22	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	
12.11.22	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	
14.11.22	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	
15.11.22	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	
17.11.22	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	
21.11.22	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	
22.11.22	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	

Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 26.10.22 To Date : 20.02.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
28.01.23	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	
30.01.23	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	
31.01.23	Electric current, concept & unit.	Electric current, concept & unit.	Electric current, concept & unit.	
02.02.23	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	
04.02.23	Grouping of resistance, numerical.	Grouping of resistance, numerical.	Grouping of resistance, numerical.	
06.02.23	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	
07.02.23	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	
09.02.23	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	
11.02.23	Electromagnetism concept and definition.	Electromagnetism concept and definition.	Electromagnetism concept and definition.	
13.02.23	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	
14.02.23	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	
16.02.23	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	
17.02.23	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	
18.02.23	LASER concept & definition.	LASER concept & definition.	LASER concept & definition.	
19.02.23	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	
20.2.23	Application of LASER & ground waves.	Application of LASER & ground waves.	Application of LASER & ground waves.	

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Session-2022-2023

Discipline: Electrical Engg.

Semester: 1st Section-B

Subject: Engg. Physics

Name of the Teaching Faculty: Dr. Niranjan Panda

Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 26.10.22 To Date : 20.02.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
26.10.22	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	
27.10.22	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	
29.10.22	Checking the correctness of physical equations.	Checking the correctness of physical equations.	Checking the correctness of physical equations.	
1.11.22	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	
2.11.22	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	
3.11.22	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	
5.11.22	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	
9.11.22	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	
10.11.22	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	
12.11.22	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	
15.11.22	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	
17.11.22	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	
22.11.22	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	
23.11.22	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	

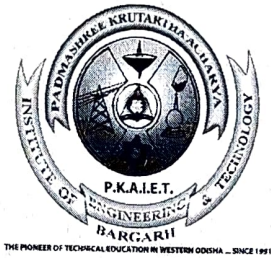
Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 26.10.22 To Date : 28.2.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
25.1.23	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	
28.1.23	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	
31.1.23	Electric current, concept & unit.	Electric current, concept & unit.	Electric current, concept & unit.	
01.2.23	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	
2.2.23	Grouping of resistance, numerical.	Grouping of resistance, numerical.	Grouping of resistance, numerical.	
4.2.23	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	
7.2.23	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	
8.2.23	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	
9.2.23	Electromagnetism concept and definition.	Electromagnetism concept and definition.	Electromagnetism concept and definition.	
11.2.23	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	
14.2.23	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	
15.2.23	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	
16.2.23	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	
17.2.23	LASER concept & definition.	LASER concept & definition.	LASER concept & definition.	
19.2.23	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	
20.2.23	Application of LASER & ground waves.	Application of LASER & ground waves.	Application of LASER & ground waves.	

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER

Session-2022-2023

Discipline: Electrical/Computer Sc./Metallurgy Engg.

Semester: 1st Section-C

Subject: Engg. Physics

Name of the Teaching Faculty: Dr. Niranjan Panda

Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 26.10.22 To Date : 20.02.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
26.10.22	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	
27.10.22	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	
28.10.22	Checking the correctness of physical equations.	Checking the correctness of physical equations.	Checking the correctness of physical equations.	
29.10.22	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	
31.10.22	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	
2.11.22	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	
3.11.22	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	
4.11.22	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	
7.11.22	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	
9.11.22	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	
10.11.22	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	
11.11.22	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	
14.11.22	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	
17.11.22	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	

Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 26.10.22 To Date : 28.02.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
19.1.23	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	
20.1.23	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	
25.1.23	Electric current, concept & unit.	Electric current, concept & unit.	Electric current, concept & unit.	
27.1.23	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	
30.1.23	Grouping of resistance, numerical.	Grouping of resistance, numerical.	Grouping of resistance, numerical.	
2.2.23	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	
3.2.23	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	
6.2.23	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	
8.2.23	Electromagnetism concept and definition.	Electromagnetism concept and definition.	Electromagnetism concept and definition.	
9.2.23	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	
10.2.23	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	
13.2.23	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	
15.2.23	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	
16.2.23	LASER concept & definition.	LASER concept & definition.	LASER concept & definition.	
17.2.23	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	
20.2.23	Application of LASER & ground waves.	Application of LASER & ground waves.	Application of LASER & ground waves.	

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Session-2022-2023

Discipline: Mechanical Engg.

Semester: 2nd Section-D

Subject: Engg. Physics

Name of the Teaching Faculty: Dr. Niranjan Panda

Subject: Engg. Physics

Semester From Date : 18.3.23 To Date : 27.6.23 No. of Days/per week class allotted 04

No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
18.3.23	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	
22.3.23	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	
23.3.23	Checking the correctness of physical equations.	Checking the correctness of physical equations.	Checking the correctness of physical equations.	
24.3.23	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	
25.3.23	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	
29.3.23	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	
31.3.23	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	
5.4.23	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	
6.4.23	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	
8.4.23	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	
12.4.23	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	
13.4.23	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	
15.4.23	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	
19.4.23	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	

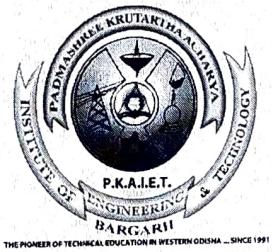
Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 18.3.23 To Date : 27.6.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
25.6.27	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	
26.6.27	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	
29.6.27	Electric current, concept & unit.	Electric current, concept & unit.	Electric current, concept & unit.	
28.6.27	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	
29.6.27	Grouping of resistance, numerical.	Grouping of resistance, numerical.	Grouping of resistance, numerical.	
30.6.27	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	
Extra Class	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	
Extra Class	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	
Extra Class	Electromagnetism concept and definition.	Electromagnetism concept and definition.	Electromagnetism concept and definition.	
Extra Class	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	
Extra Class	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	
Extra Class	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	
Extra Class	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	
Extra Class	LASER concept & definition.	LASER concept & definition.	LASER concept & definition.	
Extra Class	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	
Extra Class	Application of LASER & ground waves.	Application of LASER & ground waves.	Application of LASER & ground waves.	

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER

Session-2022-2023

Discipline: Civil/Mechanical Engg.

Semester: 2nd

Section-E

Subject: Engg. Physics

Name of the Teaching Faculty: Dr. Niranjan Panda

Subject: Engg. Physics

No. of Days/per week class allotted 04

Semester From Date : 18.3.23 To Date : 27.6.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
18.3.23	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	Introduction to students in class and revising their 10th Science.	
20.3.23	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	Dimension and dimensional formula. Dimension of diff. physical quantities.	
21.3.23	Checking the correctness of physical equations.	Checking the correctness of physical equations.	Checking the correctness of physical equations.	
23.3.23	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	Units and system of units. Units of diff. quantities.	
25.3.23	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	Scalar and Vector quantity. Types of vector and representation of a vector quantity.	
27.3.23	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	Triangle and parallelogram law of vector addition. Numerical of vector addition.	
28.3.23	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	Resolution of vectors and numerical problems.	
3.4.23	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	Products of vectors. Dot product and cross product.	
4.4.23	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	Dot product and cross product in terms of rectangular components.	
6.4.23	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	Concept of Rest and Motion. Displacement velocity and acceleration.	
8.4.23	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	Gravity, Gravitation, Force and equation of motion under gravity.	
10.4.23	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	Circular Motion and terms related to circular motion.	
11.4.23	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	Relation between linear and angular velocity acceleration.	
13.4.23	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	Projectile Motion and example of projectile motion.	

Subject: Engg. Physics No. of Days/per week class allotted 04

Semester From Date : 18.3.23 To Date : 27.6.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
17.6.23	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	Magnetic field intensity, magnetic field, magnetic field strength.	
19.6.23	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	Magnetic lines of force and magnetic flux.	
20.6.23	Electric current, concept & unit.	Electric current, concept & unit.	Electric current, concept & unit.	
22.6.23	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	Ohm's law & definition of resistance unit.	
24.6.23	Grouping of resistance, numerical.	Grouping of resistance, numerical.	Grouping of resistance, numerical.	
25.6.23	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	Kirchhoff's law of electric current.	
26.6.23	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	Application of Ohm's law & Kirchhoff's law. Numerical.	
27.6.23	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	Application to a balanced Wheatstone Bridge.	
28.6.23	Electromagnetism concept and definition.	Electromagnetism concept and definition.	Electromagnetism concept and definition.	
29.6.23	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	Force on a current carrying conductor placed in a uniform magnetic field.	
30.6.23	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	Faraday's law of electromagnetic induction.	
Extra	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	Lenz's law & Fleming's Right Hand Rule.	
Extra	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	Fleming's Left Hand Rule and relation between Left & Right Hand Rule.	
Extra	LASER concept & definition.	LASER concept & definition.	LASER concept & definition.	
Extra	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	Principle of LASER, population inversion properties of LASER.	
Extra	Application of LASER & ground waves.	Application of LASER & ground waves.	Application of LASER & ground waves.	