

## LESSON PLAN

<b>DISCIPLINE: MATH AND SCIENCE</b>	<b>SEMESTER: FIRST</b>	<b>NAME OF THE TEACHING FACULTY: G. BALA KRUSHNA REDDY</b>
---	----------------------------	--

Subject: Communicative English	No. Of. Days per week class allotted: 4	Semester from 25-10-202 to 31- 01- 2023
Weeks: 15	Class days	Theory (60)
First	1 <sup>st</sup>	Unit:1 Literature appreciation: reading comprehension: a text related to birth order, practicing skimming the gist, scanning for necessary information
	2 <sup>nd</sup>	Reading comprehension: close reading for inference and evaluation, sentence making.
	3 <sup>rd</sup>	Reading comprehension: : main idea and supporting points increasing their anticipation skills (through word-guessing activity)
	4 <sup>th</sup>	Reading comprehension exposing them to some vocabulary item they are responsible for in the exam such as: mediator, order, engaging and excel at through reading text.
Second	1 <sup>st</sup>	Reading comprehension: adapting an interesting text, out of the students reading books and implementing in the classroom, unseen passage for Comprehension
	2 <sup>nd</sup>	Standing up for yourself
	3 <sup>rd</sup>	Standing up for yourself (cont.)
	4 <sup>th</sup>	Standing up for yourself (cont.)
Third	1 <sup>st</sup>	Standing up for yourself: question and answer discussion.
	2 <sup>nd</sup>	Inchcape rock
	3 <sup>rd</sup>	Inchcape rock
	4 <sup>th</sup>	Inchcape rock: question and answer discussion.
Fourth	1 <sup>st</sup>	The magic of teamwork
	2 <sup>nd</sup>	The magic of teamwork (cont.)
	3 <sup>rd</sup>	The magic of teamwork (cont.)
	4 <sup>th</sup>	The magic of teamwork (cont.)

Fifth	1 <sup>st</sup>	The magic of teamwork: question and answer discussion
	2 <sup>nd</sup>	To my true friend
	3 <sup>rd</sup>	To my true friend (cont.)
	4 <sup>th</sup>	To my true friend: question and answer discussion.
Sixth	1 <sup>st</sup>	Unit: 2 Various paragraphs taken up for Practice keeping in view the Synonyms & antonyms
	2 <sup>nd</sup>	Various paragraphs taken up for Practice keeping in view the Synonyms & antonyms (cont.)
	3 <sup>rd</sup>	Same word used in different situations
	4 <sup>th</sup>	Same word used in different situations
Seventh	1 <sup>st</sup>	Single word substitute
	2 <sup>nd</sup>	Unit: 3 countable an uncountable noun
	3 <sup>rd</sup>	Articles and determiners
	4 <sup>th</sup>	Modal verbs
Eighth		Tenses: present
	1 <sup>st</sup>	
	2 <sup>nd</sup>	Tenses: past
	3 <sup>rd</sup>	Future time
	4 <sup>th</sup>	Voice-change
Ninth	1 <sup>st</sup>	Subject-verb agreement
	2 <sup>nd</sup>	Unit:4 Paragraph writing Meaning, features of paragraph writing ( topic statement, supporting points and plot Compatibility)
	3 <sup>rd</sup>	Developing ideas into paragraphs ( describing place/ person/ object /situation and any General topic of interest)
	4 <sup>th</sup>	Notice, more samples of letters

Tenth	1 <sup>st</sup>	Agenda & minutes of meeting, more samples of letters
	2 <sup>nd</sup>	Report writing (format of a report, reporting an event / news),
	3 <sup>rd</sup>	Report writing (format of a report, reporting an event / news) (cont.), more samples of letters
	4 <sup>th</sup>	Writing personal letter, more samples of letters
Eleventh	1 <sup>st</sup>	Letter to the principal, librarian,
	2 <sup>nd</sup>	Head of the department, and hostel superintendent, more samples of letters
	3 <sup>rd</sup>	Writing business letters Layout of a business letter Letter of enquiry
	4 <sup>th</sup>	Writing business letters Layout of a business letter Letter of placing an order
Twelfth	1 <sup>st</sup>	Writing business letters Layout of a business letter execution of an order
	2 <sup>nd</sup>	Writing business letters Layout of a business letter Complaint, cancellation of an Order(features, format and example)
	3 <sup>rd</sup>	Job application (features, format and example)
	4 <sup>th</sup>	C.v.(features, format and example)
Thirteenth	1 <sup>st</sup>	Unit-v Elements of communication introduction to communication 1. Meaning, definition and concept of communication 2. Good communication and bad communication
	2 <sup>nd</sup>	3. Communication model One-way communication model and two-way communication model with examples
	3 <sup>rd</sup>	4. Process of communication and factors responsible for it Sender, message, channel, receiver / audience, feedback, noise, context

	4 <sup>th</sup>	Professional communication 1. Meaning of professional communication 2. Types of professional communication
Fourteenth	1 <sup>st</sup>	professional communication Formal or systematic communication Upward communication (how it takes place, symbol, merits and demerits) Down-ward communication (how it takes place, symbol, merits and demerits) Parallel communication (how it takes place, symbol, merits and demerits)
	2 <sup>nd</sup>	Professional communication Informal communication Grape vine communication (how it takes place, symbol, merits and demerits)
	3 <sup>rd</sup>	non- verbal communication Meaning of nonverbal communication
	4 <sup>th</sup>	Different areas of non-verbal communication
Fifteenth	1 <sup>st</sup>	Kinesics or body language (postures and gestures, facial expression and eye Contact)
	2 <sup>nd</sup>	non- verbal communication Proxemics or spatial language (private space, personal space, social space, public Space)
	3 <sup>rd</sup>	non- verbal communication Language of signs and symbols(audio sign and visual sign in everyday life with merits And demerits)
	4 <sup>th</sup>	Question samples set practice...

## LESSON PLAN

<b>DISCIPLINE: MATH AND SCIENCE</b>	<b>SEMESTER: FIRST</b>	<b>NAME OF THE TEACHING FACULTY: G. BALA KRUSHNA REDDY, SANJUKTA DAS</b>
---	----------------------------	--

Subject: Communicative English Lab	No. Of. Days per week class allotted: 4	Semester from 25-10-22 to 31- 01- 2023
Weeks: 15	Class days	Practical (60)
First	1 <sup>st</sup>	Listening skill: introduction, learning objectives
	2 <sup>nd</sup>	Listening skill: introduction, learning objectives
	3 <sup>rd</sup>	Key vocabulary: understand, comprehension, sequence, directions
	4 <sup>th</sup>	Key vocabulary: understand, comprehension, sequence, directions
Second	1 <sup>st</sup>	Listening skill: materials, Length: 45 to 55 minute lessons
	2 <sup>nd</sup>	Listening skill: materials, Length: 45 to 55 minute lessons
	3 <sup>rd</sup>	Listening dialogs
	4 <sup>th</sup>	Listening dialogs
Third	1 <sup>st</sup>	Listen and draw a story, read or makes up a story and as the students listen they draw the different scenes.
	2 <sup>nd</sup>	Listening skill: Listen and draw a story, read or makes up a story and as the students listen they draw the different scenes.
	3 <sup>rd</sup>	Speaking skill: reading aloud of dialogues, texts, poems

	4 <sup>th</sup>	Reading aloud of dialogues, texts, poems
Fourth	1 <sup>st</sup>	Speeches focusing on intonation.
	2 <sup>nd</sup>	Speeches focusing on intonation.
	3 <sup>rd</sup>	Introducing oneself
	4 <sup>th</sup>	Introducing oneself
Fifth	1 <sup>st</sup>	Introducing others
	2 <sup>nd</sup>	Introducing others
	3 <sup>rd</sup>	Greeting, starting a Conversation
	4 <sup>th</sup>	Greeting, starting a Conversation
Sixth	1 <sup>st</sup>	Talking about oneself
	2 <sup>nd</sup>	Talking about oneself
	3 <sup>rd</sup>	Teach both formal and informal conversation skills
	4 <sup>th</sup>	Teach both formal and informal conversation skills
Seventh	1 <sup>st</sup>	Role-plays on any two- situations
	2 <sup>nd</sup>	Role-plays on any two- situations
	3 <sup>rd</sup>	Telephonic conversation
	4 <sup>th</sup>	Telephonic conversation
Eighth		Developing oral communication skills
	1 <sup>st</sup>	
	2 <sup>nd</sup>	Speaking skill: debate
	3 <sup>rd</sup>	Personality development: initiation
	4 <sup>th</sup>	Physical appearance
Ninth	1 <sup>st</sup>	Physical appearance
	2 <sup>nd</sup>	Audience purpose
	3 <sup>rd</sup>	Audience purpose
	4 <sup>th</sup>	Using mind maps and brainstorming to explore ideas.

Tenth	1 <sup>st</sup>	Using mind maps and brainstorming to explore ideas.
	2 <sup>nd</sup>	Using role play/dialogue/drama
	3 <sup>rd</sup>	Using role play/dialogue/drama
	4 <sup>th</sup>	Personality development
Eleventh	1 <sup>st</sup>	Interpersonal skills: appropriate use of non-verbal skills in face-to-face communication
	2 <sup>nd</sup>	Viva- voice
	3 <sup>rd</sup>	Viva- voice,
	4 <sup>th</sup>	Group-interviews,
Twelfth	1 <sup>st</sup>	Group-interviews,
	2 <sup>nd</sup>	Group discussion
	3 <sup>rd</sup>	Group discussion
	4 <sup>th</sup>	Seminars
Thirteenth	1 <sup>st</sup>	Seminars
	2 <sup>nd</sup>	Interpersonal skills: seminars
	3 <sup>rd</sup>	Presenting in group discussion, seminars and conferences: group discussion
	4 <sup>th</sup>	Group discussion
Fourteenth	1 <sup>st</sup>	Conferences
	2 <sup>nd</sup>	Conferences

	3 <sup>rd</sup>	Presenting in group discussion, seminars and conferences: leadership quality
	4 <sup>th</sup>	Leadership quality
Fifteenth	1 <sup>st</sup>	Time management
	2 <sup>nd</sup>	Time management
	3 <sup>rd</sup>	Achieving the target
	4 <sup>th</sup>	Checking The Record...



# LESSONPLAN

<b>DISCIPLINE: MATH AND SCIENCE</b>	<b>SEMESTER: FIRST</b>	<b>NAME OF THE TEACHING FACULTY:</b> 1. DIPTI LAXMI BHUYAN 2. G. Susmita
-------------------------------------	------------------------	--

SUBJECT: ENGG. CHEMISTRY	NO. OF CLASSES ALLOTTED PER WEEK	SEMESTER FROM: 25/10/2022 TO 31/01/2023
WEEK	CLASS/ DAY	THEORY
1ST	1 <sup>ST</sup>	-Introduction, Matter and its states.
	2 <sup>ND</sup>	-Atomic structure: fundamental particles (electron, proton and neutron), their properties.
	3 <sup>RD</sup>	-Atomic number and mass no. , definition, examples and properties of isotopes, isotones and isobars. -Definitions of atomic weight, mol. Weight, equivalent weight.
	4 <sup>TH</sup>	-Rutherford's atomic model. -Equivalent weight of acid, bases and salts. -concept of Arrhenius theory with examples.
2ND	1 <sup>ST</sup>	-Bohr's atomic model -Molarity and Normality with numericals. -Lowry Bronsted theory with examples.
	2 <sup>ND</sup>	Bohr and Bury Scheme and AUFBAU'S Principle. -Molality with examples  -LEWIS theory for Acid and Base with examples.
	3 <sup>RD</sup>	-Hund's rule with examples. -Importance of ph in industry.  -Neutralization.
	4 <sup>TH</sup>	-Electronic configuration. -Ph of solutions with numericals.  -Definition and types of salts.
3RD	1 <sup>ST</sup>	-Numericals
	2 <sup>ND</sup>	-Correction of class note -clearing of doubts.
	3 <sup>RD</sup>	-Numericals.
	4 <sup>TH</sup>	-Chemical bonding, definition, cause of bonding -Normal and Acidic salts with examples.
4TH	1 <sup>ST</sup>	-Ionic bond: definition, examples. -Basic and Double salts with examples.
	2 <sup>ND</sup>	-Covalent bond: definition with examples. -Complex and Mixed salts with examples.

	3 <sup>RD</sup>	-Coordinate bond: definition with examples. -Numericals.
	4 <sup>TH</sup>	-Electrochemistry: definition of electrolytes, their types, non electrolytes with examples. -Numericals.
5 <sup>TH</sup>	1 <sup>ST</sup>	-Electrolysis(principle) -Numericals.
	2 <sup>ND</sup>	Electrolysis of molten NaCl and Aqueous NaCl -Numericals.
	3 <sup>RD</sup>	-Faraday's laws of electrolysis.  -Numericals on faraday's laws.
	4 <sup>TH</sup>	-Electroplating (zinc plating).
6 <sup>TH</sup>	1 <sup>ST</sup>	-Class note correction.
	2 <sup>ND</sup>	-Note checking and numericals.
	3 <sup>RD</sup>	-Corrosion and its types. -Water treatment: sources of water,hard and soft water.
	4 <sup>TH</sup>	-Rusting of iron and water line corrosion. -Hardness, types of hardness.
7 <sup>TH</sup>	1 <sup>ST</sup>	-Protection from corrosion by alloying and galvanisation. -Removal of hardness by lime soda method.
	2 <sup>ND</sup>	-Hydrocarbons: definitions, general formula, examples. -Advantages of hot lime over cold lime process.
	3 <sup>RD</sup>	-Rules for iupac system of nomenclature for alkanes, alcohols, alkyl halides. -Organic ion exchange method.
	4 <sup>TH</sup>	-Rules for IUPAC system of nomenclature for alkenes and alkynes. -Lubricants: definition and types, uses.
8 <sup>TH</sup>	1 <sup>ST</sup>	-Rules for writing the structural formula from IUPAC names, bond line notation. -Purpose of lubrication.
	2 <sup>ND</sup>	-Revision.
	3 <sup>RD</sup>	-Aromatic hydrocarbons and Huckel's rule. -Numericals.
	4 <sup>TH</sup>	-Difference between aliphatic and aromatic hydrocarbons, uses of common aromatic compounds. -Fuel: definition, classification.

9TH	1 <sup>ST</sup>	-Metallurgy: minerals, ores with examples. -Uses and composition of diesel, petrol and kerosene.
	2 <sup>ND</sup>	-Metallurgical operations. -Producer gas and water gas.
	3 <sup>RD</sup>	-Gravity separation and Magnetic separation of ore concentration. -LPG, CNG and Coal gas.
	4 <sup>TH</sup>	-Froth floatation and Leaching methods of ore concentration. -Class note checking and discussion of questions .
10TH	1 <sup>ST</sup>	-Revision.
	2 <sup>ND</sup>	-Numericals and class note correction.
	3 <sup>RD</sup>	-Polymers.
	4 <sup>TH</sup>	-Definition of monomer, homo-polymer, co-polymer.
11TH	1 <sup>ST</sup>	-Degree of polymerization.
	2 <sup>ND</sup>	-Thermosetting, thermoplastic.
	3 <sup>RD</sup>	-Revision.
	4 <sup>TH</sup>	-Composition and uses of polythene.
12TH	1 <sup>ST</sup>	-Calcination and roasting. -composition and uses of poly vinyl chloride.
	2 <sup>ND</sup>	-Smelting, flux, slag with definitions and examples. -composition and uses of Bakelite.
	3 <sup>RD</sup>	-Refining of metal.
	4 <sup>TH</sup>	-Alloys and types with examples. -Elastomers.
13TH	1 <sup>ST</sup>	-Correction of assignments.
	2 <sup>ND</sup>	-Drawbacks of natural rubber.
	3 <sup>RD</sup>	-Vulcanisation of rubber.
	4 <sup>TH</sup>	-Advantages of vulcanised rubber over raw rubber.
14TH	1 <sup>ST</sup>	-Uses and examples of insecticides.
	2 <sup>ND</sup>	-Revision.
	3 <sup>RD</sup>	-Examples and uses of herbicides and fungicides.
	4 <sup>TH</sup>	-Revision.
15TH	1 <sup>ST</sup>	-Note correction.
	2 <sup>ND</sup>	-Bio fertilizers.
	3 <sup>RD</sup>	-Numericals and revision.
	4 <sup>TH</sup>	-Discussion of possible questions for semester exam.

# LESSON PLAN

<b>DISCIPLINE:</b> MATH AND SCIENCE	<b>SEMESTER:</b> FIRST	<b>NAME OF THE TEACHING FACULTY:</b> 1. DIPTI LAXMI BHUYAN 2. G. Susmita
---	---------------------------	--

SUBJECT: ENGG. CHEMIST RY LAB	NO.OF. CLASSES ALLOTTED PER WEEK	SEMESTER FROM: 25/10/2022 TO 31/01/2023
WEEK	CLASS DAY	PRACTICAL
1ST	1 <sup>ST</sup>	Introduction to chemistry lab, about safety measures, about maintenance of practical records.
	2 <sup>ND</sup>	Introduction to the students about use of different lab equipments and how to handle them safely.
2ND	1 <sup>ST</sup>	Dictation of the procedure of exp. 1, preparation and study of properties of CO <sub>2</sub> gas, explanation of theory with equations.
	2 <sup>ND</sup>	Checking of rough practical record and demonstration of the experiment.
3RD	1 <sup>ST</sup>	Expt. Conducted by the students.
	2 <sup>ND</sup>	Correction of practical records, discussion of viva questions of the expt.
4TH	1 <sup>ST</sup>	Dictation of the procedure of exp. 2. Preparation and study of properties of ammonia gas. Explanation Of Theory With Equations.
	2 <sup>ND</sup>	Checking of rough practical record and demonstration of the experiment.
5TH	1 <sup>ST</sup>	Expt. Conducted by the Students.
	2 <sup>ND</sup>	Checking of practical records and discussion of viva questions of expt. 2.
6TH	1 <sup>ST</sup>	Dictation of the procedure of exp. 3. Crystallization of CuSO <sub>4</sub> . Explanation Of Theory With Equations.
	2 <sup>ND</sup>	Checking of rough practical record and demonstration of the experiment.

7TH	1 <sup>ST</sup>	Expt. Conducted by the Students.
	2 <sup>ND</sup>	Checking of practical records and discussion of viva questions of expt. 3.
8TH	1 <sup>ST</sup>	Dictation of the procedure of exp. 4. Acid Base Titration. Explanation Of Theory With Equations.
	2 <sup>ND</sup>	Checking of rough practical record and demonstration of the experiment.
9TH	1 <sup>ST</sup>	Expt. Conducted by the Students Acidimetry.
	2 <sup>ND</sup>	Expt. Conducted by the Students Alkalimetry.
10TH	1 <sup>ST</sup>	Checking of practical records and discussion of viva questions of expt. 4.
	2 <sup>ND</sup>	Dictation of the procedure of exp. 5. Test of acid radicals.
11TH	1 <sup>ST</sup>	Checking of rough practical record and demonstration of the experiment.
	2 <sup>ND</sup>	Expt. Conducted by the Students.
12TH	1 <sup>ST</sup>	Checking of practical records and discussion of viva questions of expt. 5.
	2 <sup>ND</sup>	
13TH	1 <sup>ST</sup>	Dictation of the procedure of exp. 6. Test of basic radicals (known).
	2 <sup>ND</sup>	Checking of rough practical record and demonstration of the experiment.
14TH	1 <sup>ST</sup>	Expt. Conducted by the Students.
	2 <sup>ND</sup>	Test of unknown acid and basic radicals.

15TH	1 <sup>ST</sup>	Test of unknown salt.
	2 <sup>ND</sup>	Checking of practical records and viva voice.

# LESSON PLAN

<b>DISCIPLINE: MATH AND SCIENCE</b>	<b>SEMESTER: FIRST</b>	<b>NAME OF THE TEACHING FACULTIES: MANASWINEE PATNAIK GUNTUKU SUSMITA</b>
-------------------------------------	------------------------	---

SUBJECT: ENGG. PHYSICS	NO. OF. CLASSES ALLOTTED PER WEEK	SEMESTER FROM 25/10/2022 TO 31/01/2023		
WEEK	CLASS DAY	THEORY	CLASS DAY	PRACTICAL
1ST	1 <sup>ST</sup>	Physical quantities, fundamental and derived units, systems of units	1 <sup>ST</sup>	Introduction To Physics Lab
	2 <sup>ND</sup>	dimension and Dimensional formulae of physical quantities.		
	3 <sup>RD</sup>	Work- Formula & SI units.	2 <sup>ND</sup>	Identification Of Instruments In Physics Lab
	4 <sup>TH</sup>	Friction – Concept. Types of friction (static, dynamic), Limiting Friction		
2ND	1 <sup>ST</sup>	Principle of homogeneity, Checking the dimensional correctness	1 <sup>ST</sup>	Detection & Demonstration Of Slide Calipers
	2 <sup>ND</sup>	Scalar and Vector, Vector Representation ,types of vectors. Triangle and Parallelogram law of vector Addition , Numerical.		
	3 <sup>RD</sup>	Laws of Limiting Friction	2 <sup>ND</sup>	Determine The Volume Of A Hollow Cylinder By Using A Slide Calipers & Checking The Observation Note.
	4 <sup>TH</sup>	Coefficient of Friction , Numericals.Methods to reduce friction.		

3RD	1 <sup>ST</sup>	Resolution of Vectors –Numericals.	1 <sup>ST</sup>	Determine The Volume Of A Solid Cylinder By Using A Slide Calipers & Checking The Observation Note.
	2 <sup>ND</sup>	Vector multiplication (scalar product and vector product of vectors).		
	3 <sup>RD</sup>	Numericals, Class Note Checking	2 <sup>ND</sup>	Checking The Record & Viva Voce Of Exp-1 & Exp-2.
	4 <sup>TH</sup>	Newton's Laws of Gravitation, Universal Gravitational Constant		
4TH	1 <sup>ST</sup>	Concept of Rest and Motion, Displacement, Speed, Velocity, Acceleration & FORCE	1 <sup>ST</sup>	Detection & Demonstration Of Screw Gauge.
	2 <sup>ND</sup>	Equations of Motion under Gravity (upward and downward motion)		
	3 <sup>RD</sup>	Acceleration due to gravity, Concept of mass and weight.	2 <sup>ND</sup>	Determine The Cross Sectional Area Of A Thin Wire By Using A Screw Gauge & Checking The Observation Note.
	4 <sup>TH</sup>	Relation between g and G. Variation of g with altitude and depth		
5TH	1 <sup>ST</sup>	Circular motion: Angular displacement, Angular velocity and Angular acceleration, Relation between –(i) Linear & Angular velocity, (ii) Linear & Angular acceleration).	1 <sup>ST</sup>	Determine The Cross Sectional Area Of A Glass Piece By Using A Screw Gauge & Checking The Observation Note.
	2 <sup>ND</sup>	Projectile, Expression for Equation of Trajectory, Time of Flight,		
	3 <sup>RD</sup>	Kepler's Laws of Planetary Motion	2 <sup>ND</sup>	Checking The Record & Viva Voce Of Exp-3 & Exp-4.
	4 <sup>TH</sup>	Numericals, Class Note & Assignment Checking		
6TH	1 <sup>ST</sup>	Maximum Height and Horizontal Range for a projectile fired at an angle, Condition for maximum Horizontal Range.	1 <sup>ST</sup>	Detection & Demonstration Of Spherometer.
	2 <sup>ND</sup>	Numericals, Class Note & Assignment Checking		
	3 <sup>RD</sup>	Oscillations, Simple Harmonic Motion (SHM)	2 <sup>ND</sup>	Determine The Convex Radius Of Curvature Of Watch Glass By Using A Spherometer & Checking The Observation Note.
	4 <sup>TH</sup>	Expression for displacement, velocity, acceleration of a particle in SHM.		



7TH	1 <sup>ST</sup>	Wave motion, Transverse and Longitudinal wave	1 <sup>ST</sup>	Determine The Concave Radius Of Curvature Of Watch Glass By Using A Spherometer & Checking The Observation Note.
	2 <sup>ND</sup>	wave parameters & their relations		
	3 <sup>RD</sup>	Electrostatics, Coulombs laws	2 <sup>ND</sup>	Checking The Record & Viva Voce Of Exp-5 & Exp-6.
	4 <sup>TH</sup>	Unit charge, Absolute & Relative Permittivity		
8TH	1 <sup>ST</sup>	Ultrasonics Properties & Applications.	1 <sup>ST</sup>	Detection & Demonstration Of Simple Pendulum.
	2 <sup>ND</sup>	NUMERICALS		
	3 <sup>RD</sup>	Electric potential and Potential difference Electric field & field intensity	2 <sup>ND</sup>	Determine The Value Of 'G' By Simple Pendulum & Checking The Observation Note.
	4 <sup>TH</sup>	Capacitance ,Series and Parallel combination of Capacitors		
9TH	1 <sup>ST</sup>	Heat and Temperature	1 <sup>ST</sup>	Checking The Record & Viva Voce Of Exp -7.
	2 <sup>ND</sup>	Specific Heat Capacity		
	3 <sup>RD</sup>	Magnet, Properties of a magnet. Coulomb's Laws in Magnetism, Unit Pole	2 <sup>ND</sup>	Detection & Demonstration Of Prism.
	4 <sup>TH</sup>	Magnetic field & Field intensity , Magnetic lines of force		
10TH	1 <sup>ST</sup>	Thermal Expansion	1 <sup>ST</sup>	Determine The Angle Of The Prism.
	2 <sup>ND</sup>	Coefficient of linear, superficial and cubical expansions of Solids & their Relation		
	3 <sup>RD</sup>	Magnetic & Flux Density (B)	2 <sup>ND</sup>	Determine The Angle Of Minimum Deviation By I~D Curve Method.
	4 <sup>TH</sup>	Electric Current, Ohm's law and its applications.		
11TH	1 <sup>ST</sup>	Work and Heat, Joule's Mechanical Equivalent of Heat	1 <sup>ST</sup>	Checking The Observation Note.
	2 <sup>ND</sup>	First Law of Thermodynamics		
	3 <sup>RD</sup>	Series and Parallel combination of resistors	2 <sup>ND</sup>	Checking The Record & Viva Voce Of Exp -8.
	4 <sup>TH</sup>	Kirchhoff's laws		
12TH	1 <sup>ST</sup>	Change of state ,Latent Heat	1 <sup>ST</sup>	Detection & Demonstration Of Bar Magnet-1.
	2 <sup>ND</sup>	NUMERICALS		
	3 <sup>RD</sup>	Wheatstone's Bridge	2 <sup>ND</sup>	Trace The Lines Of Force Due To A Bar Magnet With North Pole Pointing North And Locate The Neutral Points.
	4 <sup>TH</sup>	Numericals		

13TH	1 <sup>ST</sup>	Reflection & Refraction	1 <sup>ST</sup>	Checking Bar Magnet-1.
	2 <sup>ND</sup>	Refractive index, Refraction through Prism (Ray Diagram)		
	3 <sup>RD</sup>	Classnote & Assignment Checking	2 <sup>ND</sup>	Checking The Record & Viva Voce Of Exp -9.
	4 <sup>TH</sup>	Electromagnetism ,Force acting on a current carrying conductor placed in a uniform magnetic field,		
14TH	1 <sup>ST</sup>	Critical Angle and Total internal reflection	1 <sup>ST</sup>	Detection & Demonstration Of Bar Magnet-2.
	2 <sup>ND</sup>	Fiber Optics & Numericals		
	3 <sup>RD</sup>	Fleming's Left Hand Rule	2 <sup>ND</sup>	Trace The Lines Of Force Due To A Bar Magnet With North Pole Pointing South And Locate The Neutral Points.
	4 <sup>TH</sup>	Faraday's Laws of Electromagnetic Induction, Lenz's Law (Statement) Fleming's Right Hand Rule		
15TH	1 <sup>ST</sup>	LASER -Properties & Applications	1 <sup>ST</sup>	Checking Bar Magnet-2.
	2 <sup>ND</sup>	Principle of LASER		
	3 <sup>RD</sup>	Wireless Transmission – Ground Waves, Sky Waves, Space Waves	2 <sup>ND</sup>	Checking The Record & Viva Voce Of Exp -10.
	4 <sup>TH</sup>	Numericals & Assignment Checking		

# LESSON PLAN

<b>DISCIPLINE:</b> MATH AND SCIENCE	<b>SEMESTER:</b> FIRST	<b>NAME OF THE TEACHING FACULTIES:</b> Shishir Kumar Naik Sankar Kumar Pradhan
---	---------------------------	--

<b>SUBJECT: ENGG. MATHEMATICS-I</b>	<b>NO. OF. DAYS PER WEEK CLASS ALLOTTED</b>	<b>SEMESTER:</b> 25/10/2022 to 31/01/2023
<b>WEEK</b>	<b>CLASS DAY</b>	<b>THEORY</b>
<b>1<sup>ST</sup></b>	1 <sup>ST</sup>	INTRODUCTION TO DETERMINANTS
	2 <sup>ND</sup>	INTRODUCTION TO TRIGONOMETRY
	3 <sup>RD</sup>	MINORS AND CO-FACTORS
	4 <sup>TH</sup>	TRIGONOMETRICAL RATIOS OF CERTAIN ANGLES
	5 <sup>TH</sup>	EXPANSION OF DETERMINANTS
	6 <sup>TH</sup>	PRACTICE PROBLEMS ON DETERMINANTS (TUTORIAL CLASS)
<b>2<sup>ND</sup></b>	1 <sup>ST</sup>	PROBLEMS BASED ON T-RATIOS
	2 <sup>ND</sup>	PROPERTIES OF DETERMINANTS
	3 <sup>RD</sup>	COMPOUND ANGLES
	4 <sup>TH</sup>	PROBLEMS USING PROPERTIES OF DETERMINANTS
	5 <sup>TH</sup>	PROBLEMS BASED ON COMPOUND ANGLES
	6 <sup>TH</sup>	PRACTICE PROBLEMS ON TRIGONOMETRY
<b>3<sup>RD</sup></b>	1 <sup>ST</sup>	CRAMER'S RULE
	2 <sup>ND</sup>	TRANSFORMATION OF SUMS OR DIFFERENCE IN-TO PRODUCTS
	3 <sup>RD</sup>	PROBLEMS USING CRAMER'S RULE
	4 <sup>TH</sup>	MULTIPLE ANGLES
	5 <sup>TH</sup>	MATRIX AND ITS ORDER
	6 <sup>TH</sup>	PRACTICE PROBLEMS ON CRAMER'S RULE
<b>4<sup>TH</sup></b>	1 <sup>ST</sup>	PROBLEMS BASED ON MULTIPLE ANGLES
	2 <sup>ND</sup>	TYPES OF MATRICES WITH EXAMPLES
	3 <sup>RD</sup>	SUB-MULTIPLE ANGLES
	4 <sup>TH</sup>	EQUALITY OF MATRICES

	5 <sup>TH</sup>	PROBLEMS BASED ON SUB-MULTIPLE ANGLES
	6 <sup>TH</sup>	DOUBT CLEAR ON MULTIPLE AND SUB-MULTIPLE ANGLES
5 <sup>TH</sup>	1 <sup>ST</sup>	ALGEBRA OF MATRICES
	2 <sup>ND</sup>	DEFINE INVERSE CIRCULAR FUNCTIONS
	3 <sup>RD</sup>	ADJOINT AND INVERSE OF A MATRIX
	4 <sup>TH</sup>	PROPERTIES OF INVERSE CIRCULAR FUNCTIONS
	5 <sup>TH</sup>	PROBLEMS ON ADJOINT AND INVERSE OF A MATRIX
	6 <sup>TH</sup>	PRACTICE PROBLEMS ON MATRICES
6 <sup>TH</sup>	1 <sup>ST</sup>	PROBLEMS ON USING PROPERTIES OF INVERSE TRIGONOMETRIC FUNCTIONS
	2 <sup>ND</sup>	SOLUTION OF A SYSTEM OF LINEAR EQUATIONS BY MATRIX METHOD
	3 <sup>RD</sup>	PROPERTIES OF INVERSE CIRCULAR FUNCTIONS
	4 <sup>TH</sup>	PROBLEMS BASED ON MATRIX METHOD
	5 <sup>TH</sup>	PROBLEMS ON USING PROPERTIES OF INVERSE TRIGONOMETRIC FUNCTIONS
	6 <sup>TH</sup>	CLASS NOTE CHECKING
7 <sup>TH</sup>	1 <sup>ST</sup>	INTRODUCTION OF GEOMETRY IN TWO DIMENSION
	2 <sup>ND</sup>	DISTANCE FORMULAE, DIVISION FORMULAE, AREA OF A TRIANGLE
	3 <sup>RD</sup>	PROBLEMS BASED ON DISTANCE, DIVISION AND AREA OF TRIANGLE
	4 <sup>TH</sup>	SLOPE OF A LINE AND ANGLE BETWEEN TWO LINES AND PROBLEMS
	5 <sup>TH</sup>	CONDITION OF PERPENDICULARITY AND PARALLELISM AND PROBLEMS
	6 <sup>TH</sup>	DOUBT CLEARING CLASS
8 <sup>TH</sup>	1 <sup>ST</sup>	DIFFERENT FORMS OF STRAIGHT LINES SLOPE-INTERCEPT FORM, ONE POINT FORM
	2 <sup>ND</sup>	PROBLEMS ON SLOPE AND ONE-POINT FORM
	3 <sup>RD</sup>	TWO-POINT FORM AND INTERCEPT FORM
	4 <sup>TH</sup>	PROBLEMS ON TWO-POINT AND INTERCEPT FORM
	5 <sup>TH</sup>	PERPENDICULAR FORM AND PROBLEMS
	6 <sup>TH</sup>	DOUBT CLEARING CLASS
	1 <sup>ST</sup>	EQUATION OF A LINE PASSING THROUGH A

9 <sup>TH</sup>		POINT AND PARALLEL TO A LINE
	2 <sup>ND</sup>	EQUATION OF A LINE PASSING THROUGH A POINT AND PERPENDICULAR TO A LINE
	3 <sup>RD</sup>	EQUATION OF A LINE PASSING THROUGH THE INTERSECTION OF TWO LINE
	4 <sup>TH</sup>	DISTANCE OF A POINT FROM A LINE
	5 <sup>TH</sup>	PROBLEMS BASED ON ABOVE
	6 <sup>TH</sup>	DOUBT CLEARING CLASS AND NOTE CHECKING
10 <sup>TH</sup>	1 <sup>ST</sup>	EQUATION OF A CIRCLE WITH CENTER AND RADIUS FORM
	2 <sup>ND</sup>	GENERAL EQUATION OF A CIRCLE
	3 <sup>RD</sup>	EQUATION OF A CIRCLE WITH END POINT OF DIAMETER FORM
	4 <sup>TH</sup>	PROBLEMS ON CIRCLE
	5 <sup>TH</sup>	PROBLEMS ON CIRCLE
	6 <sup>TH</sup>	DOUBT CLEARING CLASS
11 <sup>TH</sup>	1 <sup>ST</sup>	INTRODUCTION TO THREE DIMENSION
	2 <sup>ND</sup>	DISTANCE FORMULAE, SECTION FORMULAE
	3 <sup>RD</sup>	DIRECTION COSINE, DIRECTION RATIO OF A LINE
	4 <sup>TH</sup>	ANGLE BETWEEN TWO LINES, CONDITION OF PARALLELISM AND PERPENDICULARITY
	5 <sup>TH</sup>	EQUATION OF A PLANE IN GENERAL FORM
	6 <sup>TH</sup>	DOUBT CLEARING CLASS
12 <sup>TH</sup>	1 <sup>ST</sup>	ANGLE BETWEEN TWO PLANES
	2 <sup>ND</sup>	PERPENDICULAR DISTANCE OF A POINT FROM A PLANE
	3 <sup>RD</sup>	PROBLEMS
	4 <sup>TH</sup>	EQUATION OF A PLANE PASSING THROUGH A POINT AND (i) PARALLEL TO PLANE (ii) PERPENDICULAR TO A PLANE
	5 <sup>TH</sup>	PROBLEMS
	6 <sup>TH</sup>	DOUBT CLEARING CLASS
13 <sup>TH</sup>	1 <sup>ST</sup>	CLASS NOTE CHECKING
	2 <sup>ND</sup>	EQUATION OF A SPHERE WITH CENTER RADIUS FORM
	3 <sup>RD</sup>	GENERAL EQUATION OF A SPHERE
	4 <sup>TH</sup>	PROBLEMS BASED ON SPHERE
	5 <sup>TH</sup>	EQUATION OF A SPHERE WITH 2 END POINTS

		OF A DIAMETER
	6 <sup>TH</sup>	DOUBT CLEARING CLASS
14 <sup>TH</sup>	1 <sup>ST</sup>	NOTE CHECKING
	2 <sup>ND</sup>	PROBLEMS ON SPHERE
	3 <sup>RD</sup>	PROBLEMS ON 3-D
	4 <sup>TH</sup>	REVISION
	5 <sup>TH</sup>	CLASS TEST
	6 <sup>TH</sup>	DOUBT CLEARING CLASS
15 <sup>TH</sup>	1 <sup>ST</sup>	REVISION ON DETERMINANTS AND MATRICES
	2 <sup>ND</sup>	REVISION ON TRIGONOMETRY
	3 <sup>RD</sup>	REVISION ON INVERSE TRIGONOMETRIC FUNCTIONS
	4 <sup>TH</sup>	REVISION ON 2-D
	5 <sup>TH</sup>	REVISION ON 3-D
	6 <sup>TH</sup>	DOUBT CLEARING CLASS