LESSON PLAN					
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA					
Name of the Faculty:	Academic Year: 2019-20				
Course No.: TH-3	Course Name: MATHEMATICS-I				
Programe: Diploma	Branch: Civil, Mechanical, Electrical, Etc and IT				
Year/Sem: I& II	Section:A,B,C,D,E,F				

Sl. No.	Period	Time	Unit	Tonia to be Covered	Teaching Method
1.	1.	(min) 55	1	Topic to be Covered Types of matrices	Blackboard &
1,.	1.	33	1	Types of matrices	chalk
2.	2.	55	1	Algebra of matrices, Addition of matrices, Substraction of	Blackboard &
۷.	۷.	33	1	matrices	chalk
3.	3.	55	1	Multiplication of matrices, properties of matrices	Blackboard &
٥.	٦.	33	1	with pheation of matrices, properties of matrices	chalk
4.	4.	55	1	Determinant ,types of Determinant	Blackboard &
٦.	7.	33	1	Determinant, types of Determinant	chalk
5.	5.	55	1	Properties of determinant	Blackboard &
<i>J</i> .	<i>J</i> .	33	1	rroperties of determinant	chalk
6.	6.	55	1	Math Tutorials, problem solving of matrices	Blackboard &
0.	0.	33	1	Width Futorials, problem solving of matrices	chalk
7.	7.	55	1	Expansion of determinants	Blackboard &
/ .	, .	33		Expansion of determinants	chalk
8.	8.	55	1	Inverse of a matrices(second and third order)	Smart class
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9.	9.	55	1	Adjoint of matrices	Blackboard &
					chalk
10	10.	55	1	Questions of inverse matrices (second order matrix)	Blackboard &
	1.1	~~	4	2 1 1	chalk
11	11.	55	1	Cramer's rule	Blackboard &
10	10	~ ~	1	Mal mark the state of the state	chalk
12	12.	55	1	Math Tutorials, problem solving of inverse matrices	Blackboard &
1.2	10	~~	1	D (CC) 1	chalk
13	13.	55	1	Properties of Cramer's rule,	Blackboard &
1.4	14.	55	1	Durklam asking of Commen's mile	chalk
14	14.	33	1	Problem solving of Cramer's rule	Blackboard & chalk
15	15.	55	1	Colution of simultaneous equations by matrix inverse	
13	13.	33	1	Solution of simultaneous equations by matrix inverse method	Smart class
16	16.	55	1	Solution of simultaneous equations by matrix inverse	Blackboard &
10	10.	33	1	method (Question should be on two variables)	chalk
17	17.	55	2	Introduction of trigonometry	Blackboard &
1 /	17.	33	2	introduction of trigonometry	chalk
18	18.	55	2	Math Tutorials, problem solving of matrix method and	Blackboard &
10	10.	33	2	doubt class	chalk
19	19.	55	2	Trigonometrical ratios	Blackboard &
19	1).	33		Tilgonometrical ratios	chalk
20	20.	55	2	Compound angles, find	Blackboard &
20	20.	33		sin18,cos18,tan18,sin36,cos36,etc	chalk
21	21.	55	2	Multiple angles	Blackboard &
21	21.	33		Matapic angles	Sideribodi d &

22	22.	55	2	sub-multiple angles	Smart class
23	23.	55	2	Define inverse circular functions, theorem	Blackboard & chalk
24	24.	55	2	Math Tutorials, problem solving of compound angle, multiple angle	Blackboard & chalk
25	25.	55	2	Properties of inverse trigonometric function	Blackboard & chalk
26	26.	55	3	Introduction of geometry in two dimension	Blackboard & chalk
27	27.	55	3	Distance formulae, division formulae	Blackboard & chalk
28	28.	55	3	Area of a triangle	Blackboard & chalk
29	29.	55	3	Define slope of a line, find slope	Smart class
30	30.	55	3	Math Tutorials, problem solving of Division formula, area triangle	Blackboard & chalk
31	31.	55	3	Angle between two lines	Blackboard & chalk
32	32.	55	3	Condition of Perpendicularity and parallelism.	Blackboard & chalk
33	33.	55	3	Different forms of straight lines	Blackboard & chalk
34	34.	55	3	Different forms of straight lines (only formulae) i) One point form (ii) two point form (iii) slope form	Blackboard & chalk
35	35.	55	3	(iv) intercept form(v) Perpendicular form	Blackboard & chalk
36	36.	55	3	Math Tutorials, problem solving and doubt clear	Blackboard & chalk
37	37.	55	3	Equation of a line passing through a point and (i) parallel to a line	Smart class
38	38.	55	3	Equation of a line passing through a point and (ii) Perpendicular to a line	Blackboard & chalk
39	39.	55	3	Equation of a line passing through the intersection of two lines	Blackboard & chalk
40	40.	55	3	Distance of a point from a line	Blackboard & chalk
41	41.	55	3	Distance between two parallel lines	Blackboard & chalk
42	42.	55	3	Math Tutorials, problem solving and doubt clear of distance between a point from a line	Blackboard & chalk
43	43.	55	4	Equation of circle	Blackboard & chalk
44	44.	55	4	Center point and radius of the circle	Blackboard & chalk
45	45.	55	4	Equation of circle if center point and radius is given	Blackboard & chalk
46	46.	55	4	General equation of a circle	Smart class
47	47.	55	4	Circle passing through three points	Blackboard & chalk

48 48 55 4 Math Tutorials, problem solving and doubt clear of circle chalk Blackboard & chalk 49 49 55 4 Equation of circle if end points of the diameter is given chalk Blackboard & chalk 50 50 55 4 Different questions solving of circle Blackboard & chalk 51 51 55 5 Introduction of co-ordinate geometry in three dimension Blackboard & chalk 52 52 55 5 Distance formulae and its imp questions Blackboard & chalk 53 53 55 5 Section formulae and its imp questions Blackboard & chalk 54 54 55 5 Math Tutorials, problem solving and doubt clear in three dimension Chalk 54 54 55 5 Math Tutorials, problem solving and doubt clear in three dimension Blackboard & chalk 55 55 5 Math Tutorials, problem solving and doubt clear in three dimension Chalk 56 56 55 5 Angle between two planes Blackboard & chalk Chalk 57	49	0 10	55	1	Moth Tutorials muchlem solving and doubt along of simple	Disable and O
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72 72. 55 6 Math Tutorials, problem solving 73 73. 55 6 Revision Of Trigonometry Blackboard & chalk	'	, , ,			Technical of matrices and determinants	
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	1	5 /3.	55	6	Revision Of Trigonometry	
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	/4	+ /4.	33	O	Revision Of Trigonometry and problem solving	Biackboard &

75	75.	55	6	Revision Of CO-ORDINATE GEOMETRY IN TWO DIMENSIONS (Straight line)	Blackboard & chalk
76	76.	55	6	Revision Of CIRCLE	Blackboard & chalk
77	77.	55	6	Revision Of CO-ORDINATE GEOMETRY IN THREE DIMENSIONS	Blackboard & chalk
78	78.	55	6	Math Tutorials, problem solving	Blackboard & chalk
79	79.	55	6	Revision Of Sphere	Blackboard & chalk
80	80.	55	6	Expected questions for semester exam	Blackboard & chalk
81	81.	55	6	Previous year questions and answer solving	Blackboard & chalk
82	82.	55	6	Previous year questions and answer solving	Blackboard & chalk
83	83.	55	6	Previous year questions and answer solving	Blackboard & chalk
84	84.	55	6	Previous year questions and answer solving	Blackboard & chalk
85	85.	55	6	Previous year questions and answer solving	Blackboard & chalk
86	86.	55	6	Previous year questions and answer solving	Blackboard & chalk
87	87.	55	6	Previous year questions and answer solving	Blackboard & chalk
88	88.	55	6	All doubt questions and answer solving	Blackboard & chalk
89	89.	55	6	All doubt questions and answer solving	Blackboard & chalk
90	90.	55	6	All doubt questions and answer solving	Blackboard & chalk

LESSO	N PLAN			
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA				
Name of the Faculty: Jagannath Oram	Academic Year: 2019-20			
Course No.: TH.2B	Course Name: Eng.Chemistry			
Programe: Diploma	Branch: Elect., ET, IT & Civil, Mech.			
Year/Sem: I / II	Section: A, B, C, D, E, F			

Sl.	Donie d	Time	T134	Tomic to be Covered	Teaching
No.	Period	(min)	Unit	Topic to be Covered	Method
1.	1.	55	1	Fundamental particles (electron, proton & neutron Definition,mass and charge).Rutherford's Atomic model (postulates and failure)	Blackboard and Chalk
2.	2.	55	1	Atomic mass and mass number, Definition, examples	Blackboard
				and properties of Isotopes, isobars and isotones	and Chalk
3.	3.	55	1	Bohr's Atomic model (Postulates only), Bohr-Bury	Blackboard
				scheme	and Chalk
4.	4.	55	1	Aufbau's principle, Hund's rule, Electronic	Blackboard
				configuration (up to atomic no 30).	and Chalk
5.	5.	55	1	Question and discussion	Blackboard
					and Chalk
6.	6.	55	2	Introduction on chemical bonding ,types of chemical bond	Blackboard
				(electrovalent bond, covalent bond, coordinate bond)	and Chalk
7.	7.	55	2	Definition of electrovalent bond, covalent bond, coordinate	Blackboard
				bond with suitable example such as NaCl, MgCl ₂ ,	and Chalk
0	0		-	H ₂ ,Cl ₂ , O ₂ , N ₂ , H ₂ O, CH ₄ , NH ₃ , NH ₄₊ , SO ₂	
8.	8.	55	3	Introduction on Acid base theory	Blackboard
	0		2		and Chalk
9.	9.	55	3	Concept of Arrhenius, Lowry Bronsted and Lewis	Blackboard
				theory for acid and base with examples (Postulates and limitations only)	and Chalk
10	10.	55	3	Acid base theory	Smart class
				· ·	
11	11.	55	3	Definition of Salt, Types of salts (Normal, acidic,	Blackboard
				basic, double, complex and mixed salts,	and Chalk
12	12.	55	4	definitions with 2 examples from each). Definitions of atomic weight, molecular weight,	Blackboard
12	12.	33	_	Equivalent weight	and Chalk
13	13.	55	4	Determination of equivalent weight of Acid, Base and	Blackboard
13	13.	33		Salt	and Chalk
14	14.	55	4	Modes of expression of the concentrations (Molarity ,	Blackboard
	2.,			Normality & Molality) with Simple Problems.	and Chalk
15	15.	55	4	pH of solution (definition with simple numericals)	Blackboard
					and Chalk
16	16.	55	4	Importance of pH in industry (sugar, textile, paper	Blackboard
				industries only)	and Chalk
17	17.	55	5	Definition and types (Strong & weak) of Electrolytes	Blackboard
				with example. Electrolysis (Principle & process) with	and Chalk
				example of NaCl (fused and aqueous solution).	
18	18.	55	5	Faraday's 1st and 2nd law of Electrolysis (Statement,	Blackboard
				mathematical expression and Simple	and Chalk
				numerical)	

19	19.	55	5	Industrial application of Electrolysis- Electroplating (Zinc only).	Blackboard and
					smartclass
20	20.	55	6	Definition of Corrosion, Types of Corrosion	Blackboard
				Atmospheric Corrosion, Waterline corrosion	and Chalk
21	21.	55	6	Mechanism of rusting of Iron only. Protection from Corrosion by (i) Alloying and (ii) Galvanization.	Blackboard and Chalk
22	22.	55	7	Definition of Mineral, ores, gangue with example. Distinction between Ores And Minerals. General methods of extraction of metals,	Blackboard and Chalk
23	23.	55	7	i) Ore Dressing ii) Concentration (Gravity separation, magnetic separation, Froth floatation & leaching)	Blackboard and Chalk
24	24.	55	7	iii) Oxidation (Calcinations, Roasting) iv) Reduction (Smelting, Definition & examples of flux, slag)	Blackboard and Chalk
25	25.	55	7	v) Refining of the metal (Electro refining, & Distillation only)	Blackboard and Chalk
26	26.	55	8	Definition of alloy. Types of alloys (Ferro, Non Ferro & Amalgam) with example. Composition and uses of Brass, Bronze, Alnico, Duralumin	Blackboard and Chalk
27	27.	55	9	Saturated and Unsaturated Hydrocarbons (Definition with example)	Blackboard and Chalk
28	28.	55	9	Aliphatic and Aromatic Hydrocarbons (Huckle's rule only)	Blackboard and Chalk
29	29.	55	9	Difference between Aliphatic and aromatic hydrocarbons	Blackboard and Chalk
30	30.	55	9	IUPAC system of nomenclature of Alkane, Alkene	Blackboard and Chalk
31	31.	55	9	Alkyne, alkyl halide and alcohol (up to 6 carbons) with bond line notation.	Blackboard and Chalk
32	32.	55	9	Problem practice	Blackboard and Chalk
33	33.	55	9	Uses of some common aromatic compounds (Benzene, Toluene, BHC, Phenol, Naphthalene, Anthracene and Benzoic acid) in daily life.	Blackboard and Chalk
34	34.	55	10	Sources of water, Soft water, Hard water, hardness, types of Hardness (temporary or carbonate and permanent or non-carbonate)	Blackboard and Chalk
35	35.	55	10	Removal of hardness by lime soda method (hot lime & cold lime—Principle, process & advantages), Advantages of Hot lime over cold lime process.	Blackboard and Chalk
36	36.	55	10	Organic Ion exchange method (principle, process, and regeneration of exhausted resins)	Blackboard and Chalk
37	37.	55	11	Definition of lubricant, Types (solid, liquid and semisolid with examples only	Blackboard and Chalk
38	38.	55	11	specific uses of lubricants (Graphite, Oils, Grease), Purpose of lubrication	Blackboard and Chalk
39	39.	55	12	Definition and classification of fuel, Definition of calorific value of fuel, Choice of good fuel.	Blackboard and Chalk
40	40.	55	12	Liquid: Diesel, Petrol, and Kerosene Composition	Blackboard

				and uses.	and Chalk
41	41.	55	12	Gaseous: Producer gas and Water gas (Composition and uses). Elementary idea about LPG, CNG and coal gas (Composition and uses only).	Blackboard and Chalk
42	42.	55	13	Definition of Monomer, Polymer, Homo-polymer, Copolymer and Degree of polymerization.	Blackboard and Chalk
43	43.	55	13	Difference between Thermosetting and Thermoplastic	Blackboard and Chalk
44	44.	55	13	Composition and uses of Polythene, & Poly-Vinyl Chloride and Bakelite.	Blackboard and Chalk
45	45.	55	13	Definition of Elastomer (Rubber). Natural Rubber (it's draw backs). Vulcanisation of Rubber. Advantages of Vulcanised rubber over raw rubber	Blackboard and Chalk
46	46.	55	13	Pesticides: Insecticides, herbicides, fungicides- Examples and uses.	Blackboard and Chalk
47	47.	55	13	Bio Fertilizers: Definition, examples and uses	Blackboard and Chalk
48	48.	55		Revision	
49	49.	55		Doubt clear class	
50	50.	55		Revision	
51	51.	55		Doubt clear class	
52	52.	55		Revision	
53	53.	55		Doubt clear class	
54	54.	55		Previous year question solve	
55	55.	55		Previous year question solve	
56	56.	55		Revision	
57	57.	55		Doubt clear class	
58	58.	55		Revision	
59	59.	55		Previous year question solve	
60	60.	55		Previous year question solve	

LESSO	N PLAN		
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA			
Name of the Faculty: Anima Ekka	Academic Year: 2019-20		
Course No.:	Course Name: Communicative English		
Programe: Diploma	Branch: Math and Science Deptt.		
Year/Sem: I / II	Section:D,E,F		

Sl.		Time			Teaching
No.	Period	(min)	Unit	Topic to be Covered	Method
1.	1.	55		Types of Reading Skills	
2.	2.	55		Methods of Reading	
3.	3.	55		Major hurdles in Reading	
4.	4.	55		Test of Reading Skill	
5.	5.	55		Note –Making and its importance	
6.	6.	55		Methods of Note-Making	
7.	7.	55		Test on Note-Making	
8.	8.	55		Summary Writing & its features	
9.	9.	55		Practice of Summary Writing	
10	10.	55		Standing Up For Yourself By Yevgeny Yevtushenk	
				unit-I followed by discussion of questions	
11	11.	55		Standing Up For Yourself By Yevgeny Yevtushenk	
				unit-II followed by discussion of questions	
12	12.	55		Standing Up For Yourself By Yevgeny Yevtushenk	
10	10			unit-III followed by discussion of questions	
13	13.	55		Standing Up For Yourself By Yevgeny Yevtushenk	
1.4	1.4	55		unit-IV followed by discussion of questions	
14	14.	33		The Magic Of Teamwork By Sam Pitroda unit-I followed by discussion of questions	
15	15.	55		The Magic Of Teamwork By Sam Pitroda	
13	15.	33		unit-II followed by discussion of questions	
16	16.	55		The Magic Of Teamwork By Sam Pitroda	
1.0	10.	33		unit-III followed by discussion of questions	
17	17.	55		The Magic Of Teamwork By Sam Pitroda	
				unit-IV followed by discussion of questions	
18	18.			Inchcape Rock By Robert Southey	
				Unit-I followed by discussion of questions	
19	19.	55		Inchcape Rock By Robert Southey	
				Unit-II followed by discussion of questions	
20	20.			Inchcape Rock By Robert Southey	
				Unit-III followed by discussion of questions	
21	21.			To My True Friend By Elizabeth Pinard	
				Unit-I followed by discussion of questions	
22	22.	55		To My True Friend By Elizabeth Pinard	
2.5				Unit-II followed by discussion of questions	
23	23.	55		To My True Friend By Elizabeth Pinard	
2.4	0.4	5.7		Unit-III followed by discussion of questions	
24	24.	55		Use of synonyms, antonyms	

25	25.	55	2	Same word used in different situations in different meaning	
26	26.	55	2	Single word substitute	
27	27.	55	2	Countable and Uncountable Noun/Articles	
28	28.	55	2	Determiners	
29	29.	55	3	Modal Verbs	
30	30.	55	3	Tenses	
31	31.	55	3	Voice-change	
32	32.	55	3	Subject-verb Agreement	
33	33.	55	3	Practice Test on Grammar	
34	34.	55	3	Paragraph writing; Features of Paragraph Writing (Topic Statement, Supporting Points and Plot Compatibility	
35	35.	55	3	Developing Ideas into Paragraphs (Describing Place/ Person/ Object /Situation and any general topic of interest)	
36	36.	55	3	Notice writing	
37	37.	55	4	Agenda writing	
38	38.	55	4	Report writing (Format of a Report, Reporting an event / news)	
39	39.	55	4	Personal letter writing	
40	40.	55	4	Letter to the Principal, Librarian, Head of the Deptt, and Hostel Superintendent	
41	41.	55	4	Business letters writing Letter of Enquiry, Placing an Order, Execution of an Order, Complaint, Cancellation of an order(Features, Format and example	
42	42.	55	4	Job application and C.V.(Features, Format and example)	
43	43.	55	4	A. Introduction to Communication 1. Meaning, Definition and concept of communication 2. Good Communication and Bad Communication	
44	44.	55	4	Communication model One-way Communication Model and Two-way Communication Model with examples	
45	45.	55	4	 4. Process of communication and factors responsible for it Sender, Message, Channel, Receiver / Audience, Feedback, Noise, Context 	
46		55	4	B. Professional Communication 1. Meaning of professional communication 2. Types of professional communication; Down-ward communication (How it takes place, symbol, merits and demerits) Parallel communication (How it takes place, symbol, merits and demerits)	
47	47.	55	4	Informal communication	

				Grape vine communication (How it takes place, symbol, merits and demerits	
48	48.	55	4	Non- Verbal Communication 1. Meaning of nonverbal Communication	
49	49.	55	5	 2. Different areas of Non-verbal Communication Kinesics or Body Language (Postures and Gestures, Facial Expression and Eye Contact) 	
50	50.	55		 Proxemics or Spatial Language (Private Space, Personal Space, Social Space, Public Space) 	
51	51.	55		 Language of Signs and Symbols(Audio Sign and Visual Sign in everyday life with merits and demerits 	
52	52.	55			
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LESSON PLAN					
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA					
Name of the Faculty: BABITA PADHI	Academic Year: 2019-20				
Course Code.: Th.2a.	Course Name: Engineering Physics				
Program: Diploma first year	Branch: Civil, Mechanical & Electrical, ETC,IT				
Year/Semester: Ist & IInd sem	Section: A,B,C & D,E,F				

Sl.		Time			Teaching
No.	Period	(min)	Unit	Topic to be Covered	Method
1.	1.	55	1	Physical quantities definition and concept, fundamental & derived units, systems of units.	Chalkboard
2.	2.	55		Definition of dimension and dimensional formulae of physical quantities, principle of homogeneity.	Chalkboard
3.	3.	55		Dimensional equations and Principle of homogeneity. Checking the dimensional correctness of Physical relations.	Chalkboard
4.	4.	55	2	Scalar and Vector quantities, Representation of vectors types of vectors.	Chalkboard
5.	5.	55		Triangle and Parallelogram law of vector Addition Resolution of Vectors.	Chalkboard
6.	6.	55		Simple Numerical on Horizontal and Vertical components, Scalar and vector product of vectors, properties.	Chalkboard
7.	7.	55	3	Concept of Rest and Motion, Displacement, Speed, Velocity, Acceleration.	Chalkboard
8.	8.	55		Force, numerical Equations of Motion under Gravity	Chalkboard
9.	9.	55		Angular displacement, Angular velocity and Angular acceleration. Relation between –Linear & Angular velocity, Linear & Angular acceleration.	Chalkboard
10	10.	55		Projectile, Equation of Trajectory, Time of Flight, Maximum Height.	Chalkboard
11	11.	55		Horizontal Range for a projectile fired at an angle, Condition for maximum Horizontal Range.	Chalkboard
12	12.	55	4	Work – Definition, Formula & SI units, Friction – Definition & Concept.	Chalkboard
13	13.	55		Types of friction- Static, dynamic, Limiting Friction.	Chalkboard
14	14.	55		Laws of Limiting Friction, Coefficient of Friction – Definition & Formula.	Chalkboard
15	15.	55		Simple Numerical, Methods to reduce friction.	Chalkboard
16	16.	55	5	Newton's Laws of Gravitation – Statement	Chalkboard
17	17.	55		Gravitational Constant (G)- Definition, Unit and Dimension. Acceleration due to gravity (g).	Chalkboard
18	18.	55		Class Test up to 4 th unit	Chalkboard
19	19.	55		Definition of mass and weight, Relation between g and G. Variation of g with altitude and depth.	Chalkboard
20	20.	55		Kepler's Laws of Planetary Motion.	Chalkboard
21	21.	55	6	Simple Harmonic Motion (SHM) - Definition & Examples.	Chalkboard

22	22.	55		Expression for displacement, velocity, acceleration of a body/ particle in SHM.	Chalkboard
23	23.	55		Wave motion – Definition & Concept. Transverse and Longitudinal wave motion – Definition, Examples & Comparison.	Chalkboard
24	24.	55		Definition of different wave parameters (Amplitude, Wavelength, Frequency, Time Period. Derivation of Relation between Velocity, Frequency and Wavelength of a wave.	Chalkboard
25	25.	55		Applications of Ultrasonic as assignment and revision of previous topic.	Chalkboard
26	26.	55	7	Heat and Temperature – Definition & Difference Units of Heat, Specific Heat (concept, definition, unit, dimension and simple numerical).	Chalkboard
27	27.	55		Thermal Expansion – Definition & Concept, Expansion of Solids.	Chalkboard
28	28.	55		Coefficient of linear, superficial and cubical expansions of Solids – Definition & Units, Relation between α , β & Υ	Chalkboard
29	29.	55		Change of state and latent heat and simple numerical.	Chalkboard
30	30.	55		Work and Heat - Concept & Relation, Joule's Mechanical Equivalent of Heat (Definition, Unit)	Chalkboard
31	31.	55		First Law of Thermodynamics.	Chalkboard
32	32.	55	8	Smart class regarding Optics.	Smart TV
33	33.	55		Reflection & Refraction – Definition, Laws of reflection and refraction, Refractive index – Definition, Formula &Simple numerical (Ray Diagram) & formula.	Chalkboard
34	34.	55		Critical Angle and Total internal reflection – Concept, Refraction through Prism.	Chalkboard
35	35.	55		Fibre Optics – Definition, Properties & Applications. Doubt clear.	Chalkboard
36	36.	55	9	Electrostatics – Definition & Concept, Statement & Explanation of Coulombs laws,	Chalkboard
37	37.	55		Definition of Unit charge, Absolute & Relative Permittivity (ε) .	Chalkboard
38	38.	55		Electric potential and Electric Potential difference ,Electric field, Electric field intensity (E) , Capacitance concept.	Chalkboard
39	39.	55		Series and Parallel combination of Capacitors, Formula for effective capacitance & Simple numerical)	Chalkboard
40	40.	55		Magnet, Properties of a magnet. Coulomb's Laws in Magnetism – Statement & Explanation, Unit Pole.	Chalkboard
41	41.	55		Magnetic field, Magnetic Field intensity (H) - Magnetic lines of force (Definition and Properties)Magnetic Flux (Φ) & Magnetic Flux Density (B) concept.	Chalkboard
42	42.	55	10	Electric Current – Definition, Formula & SI Units. Ohm's law, and its applications.	Chalkboard
43	43.	55		Concept of resistance,	Chalkboard

				Series and Parallel combination of resistors.	
44	44.	55		Kirchhoff's laws, and recalling of previous class concept.	Chalkboard
45	45.	55		Application of Kirchhoff's laws to Wheatstone bridge - Balanced condition of Wheatstone's Bridge – Condition of Balance.	Chalkboard
46	46.	55	11	Electromagnetism – Definition & Concept.	Chalkboard
47	47.	55		Force acting on a current carrying conductor placed in a uniform magnetic field.	Chalkboard
48	48.	55		Faraday's Laws of Electromagnetic Induction, Lenz's Law	Chalkboard
49	49.	55		Fleming's Left Hand Rule, Fleming's Right Hand Rule 11.6 Comparison between Fleming's Right Hand Rule and Fleming's Left Hand Rule.	Chalkboard
50	50.	55	12	LASER & laser beam (Concept and Definition), Principle of LASER (Population Inversion & Optical Pumping) Properties & Applications of LASER	Chalkboard
51	51.	55		Wireless Transmission – Ground Waves, Sky Waves, Space Waves (Concept & Definition)	Chalkboard
52	52.	55		Doubt class and discussing previous year question paper.	Chalkboard
53	53.	55		Doubt class and discussing previous year question paper.	Chalkboard
54	54.			Revision of unit-1&2	Chalkboard
55	55.			Revision of unit-4&5	Chalkboard
56	56.			Revision of unit-6&7	Chalkboard
57	57.			Revision of unit-8&9	Chalkboard
58	58.			Revision of unit-10,11&12	Chalkboard
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LAB LESSON PLAN					
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA					
Name of the Faculty: Jagannath Oram	Academic Year: 2019-20				
Course No.: Pr 2(a)	Course Name: Engineering Chemistry practical				
Programe: Diploma	Branch: Electrical, ETC/IT, Civil, Mech.				
Year/Sem: I & II	Section: A, B, C, D, E, F				

Sl.		Time		Teaching
No.	Week	(min)	Experiments to be performed	method
1.	1 st /Sept	110	Introduction and some basic knowledge about chemistry	Chalkboard/
			laboratory	white board
2.	^{2nd} /Sept	110	Demonstration on Preparation and study of physical and chemical properties CO2 gas. Conduction of Experiment on Preparation and study of physical and chemical properties CO2 gas.	Chalkboard/ white board
3.	3 rd / Sept	110	Demonstration on Preparation and study of physical and chemical properties NH3 gas. Conduction of Experiment on Preparation and study of physical and chemical properties NH3 gas.	Chalkboard/ white board
4.	4 th /Sept	110	Demonstration on Crystallization of Copper sulphate from copper carbonate. Conduction of Experiment on Crystallization of Copper sulphate from copper carbonate.	Chalkboard/ white board
5.	1 st /Oct	110	Demonstration on Simple acid-base titrations (i) Acidimetry. Conduction of Acidimetry titration.	Chalkboard/ white board
6.	2 nd /Oct		Demonstration on Simple acid-base titrations (ii) Alkalimetry. Conduction of Alkalimetry titration	Chalkboard/ white board
7.	3 rd /Oct	110	Demonstration and conduction of Tests for acid radicals (Known): Carbonate, Sulphide, Sulphate. Chloride, Nitrate	Chalkboard/ white board
8.	4 th /Oct	110	Demonstration and Conduction of Test for Basic radicals (Known): (i) Ammonium, (ii) Zinc, (iii) Magnesium, (iv) Aluminium, (v) Calcium, (vi) Sodium and (vii) potassium	Chalkboard/ white board
9.	1 st /Nov	110	Conduction of Test for unknown Acid radicals	Chalkboard/ white board
10.	2 nd /Nov	110	Conduction of Test for unknown basic radicals	Chalkboard/ white board

LESSON PLAN					
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA					
Name of the Faculty: Anima Ekka	Academic Year: 2019-20				
Course No.: Th-1(a)	Course Name: Communicative English(Theory)				
Programe: Diploma	Branch: Civil, Mech. / Elect., ETC, IT.				
Year/Sem: I / II	Section: A,B,C,D,E,F				

Sl. No.	Period	Time (min)	Topic to be Covered	Teaching Method
1.	1.	55	Types of Reading Skills	Blackboard&
1.	••	55	Types of resuming skills	chalk
2.	2.	55	Methods of Reading	Blackboard&
	_,		The state of the s	chalk
3.	3.	55	Major hurdles in Reading	Blackboard&
			and the second of the second o	chalk
4.	4.	55	Test of Reading Skill	Blackboard&
				chalk
5.	5.	55	Note –Making and its importance	Blackboard&
			T	chalk
6.	6.	55	Methods of Note-Making	Blackboard&
				chalk
7.	7.	55	Test on Note-Making	
8.	8.	55	Summary Writing & its features	Blackboard&
				chalk
9.	9.	55	Practice of Summary Writing	
10	10.	55	Standing Up For Yourself By Yevgeny Yevtushenk	Blackboard&
			unit-I followed by discussion of questions	chalk
11	11.	55	Standing Up For Yourself By Yevgeny Yevtushenk	Blackboard&
			unit-II followed by discussion of questions	chalk
12	12.	55	Standing Up For Yourself By Yevgeny Yevtushenk	Blackboard&
			unit-III followed by discussion of questions	chalk
13	13.	55	Standing Up For Yourself By Yevgeny Yevtushenk	Blackboard&
			unit-IV followed by discussion of questions	chalk
14	14.	55	The Magic Of Teamwork By Sam Pitroda	Blackboard&
			unit-I followed by discussion of questions	chalk
15	15.	55	The Magic Of Teamwork By Sam Pitroda	Blackboard&
			unit-II followed by discussion of questions	chalk
16	16.	55	The Magic Of Teamwork By Sam Pitroda	Blackboard&
			unit-III followed by discussion of questions	chalk
17	17.	55	The Magic Of Teamwork By Sam Pitroda	Blackboard&
			unit-IV followed by discussion of questions	chalk
18	18.		Inchcape Rock By Robert Southey	Blackboard&
			Unit-I followed by discussion of questions	chalk
19	19.	55	Inchcape Rock By Robert Southey	Blackboard&
			Unit-II followed by discussion of questions	chalk
20	20.		Inchcape Rock By Robert Southey	Blackboard&
			Unit-III followed by discussion of questions	chalk
21	21.		To My True Friend By Elizabeth Pinard	Blackboard&
			Unit-I followed by discussion of questions	chalk

22	22.	55	To My True Friend By Elizabeth Pinard	Blackboard8
			Unit-II followed by discussion of questions	chalk
23	23.	55	To My True Friend By Elizabeth Pinard	Blackboard8
			Unit-III followed by discussion of questions	chalk
24	24.	55	Use of synonyms, antonyms	Blackboard8
				chalk
25	25.	55	Same word used in different situations in different	Blackboard8
			meaning	chalk
26	26.	55	Single word substitute	Blackboard8
				chalk
27	27.	55	Countable and Uncountable Noun/Articles	Blackboard8
				chalk
28	28.	55	Determiners	Blackboard8
				chalk
29	29.	55	Modal Verbs	Blackboard8
				chalk
30	30.	55	Tenses	Blackboard8
				chalk
31	31.	55	Voice-change	Blackboard8
				chalk
32	32.	55	Subject-verb Agreement	Blackboard
				chalk
33	33.	55	Practice Test on Grammar	Blackboard
				chalk
34	34.	55	Paragraph writing; Features of Paragraph Writing (Blackboard8
			Topic Statement, Supporting Points and Plot	chalk
			Compatibility	
35	35.	55	Developing Ideas into Paragraphs (Describing Place/	Blackboard8
			Person/ Object /Situation and any general topic of interest	chalk
36	36.	55	Notice writing	Blackboard8
30	50.	33	Notice withing	chalk
37	37.	55	Agenda writing	Blackboard8
37	37.	33	Agenda whinig	chalk
38	38.	55	Report writing (Format of a Report, Reporting an	Blackboard
30	50.	33	event / news)	chalk
39	39.	55	Personal letter writing	Blackboard
	37.	55	Toronal foliar writing	chalk
40	40.	55	Letter to the Principal, Librarian, Head of the Deptt,	Blackboard
	10.	20	and Hostel Superintendent	chalk
41	41.	55	Business letters writing	Blackboard
			Letter of Enquiry, Placing an Order, Execution of an	chalk
			Order, Complaint, Cancellation of an	0.10.11
			order(Features, Format and example	
42	42.	55	Job application and C.V.(Features, Format and	Blackboard
			example)	chalk
43	43.	55	A. Introduction to Communication	Blackboard
			Meaning, Definition and concept of communication	chalk
			Good Communication and Bad Communication	
44	44.	55	3. Communication model	Blackboard8
			One-way Communication Model and Two-way	chalk

			Communication Model with examples	
45	45.	55	 4. Process of communication and factors responsible for it Sender, Message, Channel, Receiver / Audience, Feedback, Noise, Context 	Blackboard& chalk
46	46.	55	B. Professional Communication 1. Meaning of professional communication 2. Types of professional communication; Down-ward communication (How it takes place, symbol, merits and demerits) Parallel communication (How it takes place, symbol, merits and demerits)	Blackboard& chalk
47	47.	55	Informal communication • Grape vine communication (How it takes place, symbol, merits and demerits	Blackboard& chalk
48	48.	55	D. Non- Verbal Communication 1. Meaning of nonverbal Communication	Blackboard& chalk
49	49.	55	 2. Different areas of Non-verbal Communication Kinesics or Body Language (Postures and Gestures, Facial Expression and Eye Contact) 	
50	50.	55	 Proxemics or Spatial Language (Private Space, Personal Space, Social Space, Public Space) 	
51	51.	55	 Language of Signs and Symbols(Audio Sign and Visual Sign in everyday life with merits and demerits 	Blackboard& chalk
52	52.	55	Revision classes	
53	53.	55	Revision classes	
54	54.	55	Revision classes	
55	55.	55	Revision classes	
56	56.	55	Revision classes	
57	57.	55	Doubt clearing classes	
58	58.	55	Doubt clearing classes	
59	59.	55	Solving of previous years' question papers	
60	60.	55	Solving of previous years' question papers	

LESSON PLAN					
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA					
Name of the Faculty: Anima Ekka	Academic Year: 2019-20				
Course No.: Pr-1(a)	Course Name: Communicative English(Practical)				
Programe: Diploma	Branch: Civil, Mech. / Elect., ETC, IT.				
Year/Sem: I / II	Section: A,B,C,D,E,F				

Sl. No.	Period	Time (min)	Topic to be Covered	Children's Activity	
1	1.2	110	Listaning to a taut nices	After listening the student will fill-in-blanks, question & answer from the text	
1	1,2	110	Listening to a text piece	read aloud	
2	3,4	110	Listening to a text piece	After listening the student will fill-in-blanks, question &answer from the text read aloud	
			Listening to a text piece	After listening the student will fill-in-blanks, question &answer from the text	
3	5,6	110	T	read aloud	
4	7,8	110	Listening to a text piece	After listening the student will fill-in-blanks, question & answer from the text read aloud	
			Listening to a text piece	After listening the student will fill-in-blanks, question &answer from the text	
5	9,10	110		read aloud	
6	11,12	110	Reading of text	Student will read the text aloud	
7	13,14	110	Reading of poem	Student will recite the poem aloud	
8	15,16	110	Reading of papers in seminar	Student will read the paper aloud	
9	17,18	110	Speech delivery on environmental issues	Student will deliver the speech	
10	19,20	110	Speech delivery on topic of your interest	Student will deliver the speech	
11	21,22	110	Welcome Speech	Student will deliver the speech	
12	23,24	110	Vote of Thanks	Student will deliver the speech	
13	25,26	110	Group Discussion on the given topic	Students will participate in a discussion on a given topic	

				Student will deliver
				dialogues with proper
14	27,28	110	Role Play-I	intonation
	, -			Student will deliver
				dialogues with proper
15	29,30	110	Role Play-II	intonation
	Í		•	Student will deliver
				dialogues with proper
16	31,32	110	Telephonic Conversation-I	intonation
				Student will deliver
		4.40		dialogues with proper
17	33,34	110	Telephonic Conversation-II	intonation
				Students participate in
18	35,36	110	Personality Development	icebreaker activities
			D III D I A DI LI	Students dress up formally
			Personality Development-Physical	taking care of hair style
19	37,38	110	appearance	&footwear
				Students will practice
20	39,40	110	Personality Development-Body Language	correct body language
				Students will engage in
				conversation/discussion by
				maintaining proper spatial
21	41,42	110	Personality Development-Proxemics	arrangement.
			Personality Development- Audience	Students will face the
22	12 11	110	_	audience by giving
22	43,44	110	Purpose	presentation
				Students will participate in a discussion on a given
23	45,46	110	Interpersonal skill-GDs	topic
	10,10	110	mer personar simi GDs	Students will give
				presentation on technical
24	47,48	110	Interpersonal skill-Seminars	topics
			•	•
				Students will face mock
25	49,50	110	Interpersonal skill-Interview	interview
			-	Students will practice
				giving presentations,
26	51,52	110	Practice Session	speech, etc
27	53,54	110	Practice Session	-do-
28	55,56	110	Practice Session	-do-
29	57,58	110	Practice Session	-do-
	- 7			
30	59,60	110	Practice Session	-do-
	22,00		A A WOOD DOUBLOID	

LAB LESSON PLAN					
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA					
Name of the Faculty: Babita Padhi	Academic Year: 2019-20				
Course No.: Pr 2(a)	Course Name: Engineering Physic practical				
Programe: Diploma	Branch: Civil, Mech.& Elect., ETC, IT				
Year/Sem: I & II	Section: A, B, C, D, E, F				

Sl.		Time		Teaching
No.	Week	(min)	Experiments to be performed	method
1.	1 st /Sept	110	Introduction and demonstration on length measuring	Chalkboard/
			instrument slide caliper.	white board
			Conducting slide caliper experiment for finding the volume	
	21		of cylinder (solid, hollow).	
2.	^{2nd} /Sept	110	Demonstration on screw gauge for the measurement of	Chalkboard/
			length, radius, thickness.	white board
			Conducting screw gauge experiment for finding the area of	
	md.		cross section of a wire/plane lamina.	
3.	3 rd / Sept	110	Demonstration on spherometer for the measurement of	Chalkboard/
			radius of curvature.	white board
			Conducting spherometer experiment for finding the radius	
	.th		of curvature of a given spherical surface(convex, concave).	
4.	4 th /Sept	110	Demonstration on prism for finding the angle of prism.	Drawing
			Conducting prism experiments.	board
~	1 st /Oct	110		
5.	1"/Oct	110	Demonstration on finding angle of deviation.	Drawing
	and (a		Plotting of ID curve and finding refractive index.	board
6.	2 nd /Oct		Puja Holiday.	
7.	3 rd /Oct	110	Demonstration on tracing of the magnetic lines of force.	Drawing
			Conducting magnet experiment for tracing the magnetic	board
			lines of force for a bar magnet.	
8.	4 th /Oct	110	Demonstration on pendulum for finding acceleration due to	Chalkboard/
			gravity.	white board
			Conducting pendulum experiments for finding "g" using	
			simple pendulum and plotting 1-t ² graph.	
9.	1 st /Nov	110	Demonstration on verifying Ohm's law to find the	Chalkboard/
			resistance of a wire.	white board
			Conducting experiment on verifying ohm's law by	
			Ammeter- Voltmeter method	