PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Ms. Preetpal Kaur (Instructor)
DISCIPLINE : Arch, Mech (B) ,Plastic, Auto
SEMESTER : First
SUBJECT : English and communication skill (Practical)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Practicals 4+4+2+4

WEEK	Practical
1	Reading Practice of lessons in the Lab Activity classes.
	Comprehension exercises of unseen passages along with the lessons prescribed.
	Vocabulary enrichment and grammar exercises based on the selected readings
2	Conversation Practice
3	Chapter-1.3 Comprehension Passages
4	Chapter 1.4 Comprehension Passages
5	Chapter 1.5 Comprehension Passages
6	Reading aloud Newspaper headlines and important articles
7	Introducing oneself, others and leave- taking(talking about yourself)
8	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
9	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
10	Narayan Murthy's speech at LBSNA
11	Offering-Responding to offers
12	Apologizing & Forgiving, Complaining;
13	Talking about likes and dislikes
14	Self-introduction Mock
	Situational Conversation
15	Revision
	Revision

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Ms. Neetu Gupta (Guest Faculty)
DISCIPLINE : Civil(A), Electrical, Plastic
SEMESTER : 1st
SUBJECT : English & communication skill
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Lectures (Theory) = 02 +02+02

WEEK		THEORY	
	LECTURE DAY	Coverage Date	TOPIC (WITH ASSIGNMENT & TESTS)
1	1		Techniques of reading: Skimming and Scanning, Extensive and Intensive Reading: Textual Study
	2		Homecoming – R.N. Tagore
2	3		Life Sketch of Sir Mokshagundam Visvesvarayya,
	4		Nouns
3	5		Pronouns
	6		Significance, essentials and effectiveness of Written Communication
4	7		Revision
	8		Revision
1st sessional test			
5	9		Life Sketch of Dr. Abdul Kalam
	10		Concept and Process of Communication
6	11		Types of Communication (Verbal Communication)
	12		Barriers to communication
7	13		Articles
	14		Verbs(Main and Auxiliary)
8	15		Speaking Skill: Significance and essentials of Spoken Communication
	16		Listening Skill: Significance and essentials of Listening, Revision
2nd sessional test			
9	17		Narayan Murthy's speech at LBSNA
	18		Narayan Murthy's speech at LBSNA
10	19		Tenses
	20		Tenses
11	21		Notice Writing
	22		Notice Writing
12	23		Official Letters and E-mails
	24		Official Letters and E-mails
3rd sessional test			
13	25		Frequently-used Abbreviations used in Letter-Writing
	26		Paragraph Writing
14	27		Paragraph Writing
	28		Netiquettes
15	29		Revision
	30		Revision

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Ms. Neetu Gupta (Guest Faculty)
DISCIPLINE : Civil(A), Electrical
SEMESTER : First
SUBJECT : English and communication skill (Practical)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Practicals 4+4

WEEK	Practical
1	Reading Practice of lessons in the Lab Activity classes.
	Comprehension exercises of unseen passages along with the lessons prescribed.
	Vocabulary enrichment and grammar exercises based on the selected readings
2	Conversation Practice
3	Chapter-1.3 Comprehension Passages
4	Chapter 1.4 Comprehension Passages
5	Chapter 1.5 Comprehension Passages
6	Reading aloud Newspaper headlines and important articles
7	Introducing oneself, others and leave- taking(talking about yourself)
8	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
9	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
10	Narayan Murthy's speech at LBSNA
11	Offering-Responding to offers
12	Apologizing & Forgiving, Complaining;
13	Talking about likes and dislikes
14	Self-introduction Mock
	Situational Conversation
15	Revision
	Revision

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Ms. Jashanpreet Kaur (Lecturer)
DISCIPLINE : Mech A, Mech B, Comp,Auto
SEMESTER : 1st
SUBJECT : English & communication skill
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Lectures (Theory) = 02 +02+02 +02

WEEK		THEORY	
	LECTURE DAY	Coverage Date	TOPIC (WITH ASSIGNMENT & TESTS)
1	1		Techniques of reading: Skimming and Scanning, Extensive and Intensive Reading: Textual Study
	2		Homecoming – R.N. Tagore
2	3		Life Sketch of Sir Mokshagundam Visvesvarayya,
	4		Nouns
3	5		Pronouns
	6		Significance, essentials and effectiveness of Written Communication
4	7		Revision
	8		Revision
1st sessional test			
5	9		Life Sketch of Dr. Abdul Kalam
	10		Concept and Process of Communication
6	11		Types of Communication (Verbal Communication)
	12		Barriers to communication
7	13		Articles
	14		Verbs(Main and Auxiliary)
8	15		Speaking Skill: Significance and essentials of Spoken Communication
	16		Listening Skill: Significance and essentials of Listening, Revision
2nd sessional test			
9	17		Narayan Murthy's speech at LBSNA
	18		Narayan Murthy's speech at LBSNA
10	19		Tenses
	20		Tenses
11	21		Notice Writing
	22		Notice Writing
12	23		Official Letters and E-mails
	24		Official Letters and E-mails
3rd sessional test			
13	25		Frequently-used Abbreviations used in Letter-Writing
	26		Paragraph Writing
14	27		Paragraph Writing
	28		Netiquettes
15	29		Revision
	30		Revision

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Dr. Jashanpreet Kaur (Lecturer)
DISCIPLINE : Mech A, Comp.
SEMESTER : First
SUBJECT : English and communication skill (Practical)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Practicals = 4+4

WEEK	Practical
1	Reading Practice of lessons in the Lab Activity classes.
	Comprehension exercises of unseen passages along with the lessons prescribed.
	Vocabulary enrichment and grammar exercises based on the selected readings
2	Conversation Practice
3	Chapter-1.3 Comprehension Passages
4	Chapter 1.4 Comprehension Passages
5	Chapter 1.5 Comprehension Passages
6	Reading aloud Newspaper headlines and important articles
7	Introducing oneself, others and leave- taking(talking about yourself)
8	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
9	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
10	Narayan Murthy's speech at LBSNA
11	Offering-Responding to offers
12	Apologizing & Forgiving, Complaining;
13	Talking about likes and dislikes

14	Self-introduction Mock
	Situational Conversation
15	Revision
	Revision

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Mrs. Sharmila Sharma (Guest Faculty)
DISCIPLINE :ECE, Arch, Civil B
SEMESTER : 1st
SUBJECT : English & communication skill
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Lectures (Theory) = 02 +02+02

WEEK		THEORY	
	LECTURE DAY	Coverage Date	TOPIC (WITH ASSIGNMENT & TESTS)
1	1		Techniques of reading: Skimming and Scanning, Extensive and Intensive Reading: Textual Study
	2		Homecoming – R.N. Tagore
2	3		Life Sketch of Sir Mokshagundam Visvesvarayya,
	4		Nouns
3	5		Pronouns
	6		Significance, essentials and effectiveness of Written Communication
4	7		Revision
	8		Revision
1st sessional test			
5	9		Life Sketch of Dr. Abdul Kalam
	10		Concept and Process of Communication
6	11		Types of Communication (Verbal Communication)
	12		Barriers to communication
7	13		Articles
	14		Verbs(Main and Auxiliary)
8	15		Speaking Skill: Significance and essentials of Spoken Communication
	16		Listening Skill: Significance and essentials of Listening, Revision
2nd sessional test			
9	17		Narayan Murthy's speech at LBSNA
	18		Narayan Murthy's speech at LBSNA
10	19		Tenses
	20		Tenses
11	21		Notice Writing
	22		Notice Writing
12	23		Official Letters and E-mails
	24		Official Letters and E-mails
3rd sessional test			
13	25		Frequently-used Abbreviations used in Letter-Writing
	26		Paragraph Writing
14	27		Paragraph Writing
	28		Netiquettes
15	29		Revision
	30		Revision

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Ms. Sharmila (Guest Faculty)
DISCIPLINE : Civil-B,ECE.
SEMESTER : First
SUBJECT : English and communication skill (Practical)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Practicals = 4+4

WEEK	Practical
1	Reading Practice of lessons in the Lab Activity classes.
	Comprehension exercises of unseen passages along with the lessons prescribed.
	Vocabulary enrichment and grammar exercises based on the selected readings
2	Conversation Practice
3	Chapter-1.3 Comprehension Passages
4	Chapter 1.4 Comprehension Passages
5	Chapter 1.5 Comprehension Passages
6	Reading aloud Newspaper headlines and important articles
7	Introducing oneself, others and leave- taking(talking about yourself)
8	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
9	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
10	Narayan Murthy's speech at LBSNA
11	Offering-Responding to offers
12	Apologizing & Forgiving, Complaining;
13	Talking about likes and dislikes

14	Self-introduction Mock
	Situational Conversation
15	Revision
	Revision

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : SARITA MANN (Lecturer)

DISCIPLINE : Elect., Mech A, Mech B

SEMESTER :FIRST

SUBJECT : APPLIED PHYSICS

LESSION PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : Lectures = 2+2+2 Practicals = 4+4 +2

WEEK		THEORY		PRACTICAL	
	LECTURE DAY		TOPIC (WITH ASSIGNMENT & TESTS)		TOPIC
1	1		Definition of physics and physical quantities	1	Familiarization of measuring instruments-Vernier caliper, screw gauge spherometer
	2		Units-fundamental and derived units		
2	3		System of units-FPS, CGS, MKS, SI	2	To find the diameter of a solid cylinder using Vernier caliper
	4		Dimensions and dimensional formulae		
3	5		SI unit and dimensions of some physical quantities	3	To find the internal diameter and depth of a beaker using Vernier calliper
	6		Dimensional equations and principle of homogeneity		
4	7		scalar and vector quantities with examples, Vector addition-triangle and parallelogram law and	4	Checking of files and viva voce
	8		Force, its units and resolution of force, Newton's laws of motion with examples		
1st Sessional test					
5	9		Discussion of sessional	5	To find the diameter of wire using screw gauge
	10		Linear momentum, impulse and law of conservation		
6	11		Angular displacement, velocity, acceleration, time period, frequency	6	To find thickness of paper using screw gauge.
	12		Relation between linear and angular velocity		
7	13		Centripetal and centrifugal force and banking of roads	7	Checking of files & viva-voce
	14		Work-definition, formula and unit and types of work,		
8	15		Energy-definition, units and transformation of energy, Kinetic energy and potential energy	8	To determine the thickness of glass strip using a spherometer
	16		Law of conservation of energy with derivation, Power-definition, formula and units		
2nd Sessional test					
9	17		Discussion of sessional	9	To determine the radius of curvature of a given spherical surface using spherometer
	18		Elasticity and plasticity, deforming and restoring force		
10	19		Definition of stress and strain, Hooke's law	**10**	To verify parallelogram law of forces
	20		Types of modulus of elasticity		

11	21		Pressure-atmospheric pressure, gauge	11	To determine atmospheric pressure using Fortin's barometer
	22		Surface tension and applications		
12	23		Viscosity-definition, examples and effect of	12	To determine force constant of a spring using Hooke's law
	24		Definition of heat and temperature, Difference between heat and temperature		
13	25		Principle and working of mercury thermometer	13	Checking of files & viva-voce
	26		Modes of transfer of heat-conduction, convection, radiation , Different scales of temperature and their relationship		
3rd Sessional test					
14	27		Revision of Unit 1 and Unit 2	14	To measure room temperature with the help of thermometer and convert to different scales
	28		Revision of Unit 3 and Unit 4		
15	29		Revision of Unit 5 and numerical problem	15	Revision of Practicals
	30		Discussion of previous year Q. Papers		

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Mayur Rohilla (Guest Faculty)

DISCIPLINE : Civil A, ECE, Arch, Electrical (Only Practical)

SEMESTER :FIRST

SUBJECT : APPLIED PHYSICS

LESSION PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : Lectures = 2+2+2 Practicals = 4+4+4+2

WEEK	THEORY			PRACTICAL	
	LECTURE DAY		TOPIC (WITH ASSIGNMENT & TESTS)		TOPIC
1	1		Definition of physics and physical quantities	1	Familiarization of measuring instruments-Vernier caliper, screw gauge spherometer
	2		Units-fundamental and derived units		
2	3		System of units-FPS, CGS, MKS, SI	2	To find the diameter of a solid cylinder using Vernier caliper
	4		Dimensions and dimensional formulae		
3	5		SI unit and dimensions of some physical quantities	3	To find the internal diameter and depth of a beaker using Vernier calliper
	6		Dimensional equations and principle of homogeneity		
4	7		scalar and vector quantities with examples, Vector addition-triangle and parallelogram law and	4	Checking of files and viva voce
	8		Force, its units and resolution of force, Newton's laws of motion with examples		
1st Sessional test					
5	9		Discussion of sessional	5	To find the diameter of wire using screw gauge
	10		Linear momentum, impulse and law of conservation		
6	11		Angular displacement, velocity, acceleration, time period, frequency	6	To find thickness of paper using screw gauge.
	12		Relation between linear and angular velocity		
7	13		Centripetal and centrifugal force and banking of roads	7	Checking of files & viva-voce
	14		Work-definition, formula and unit and types of work,		
8	15		Energy-definition, units and transformation of energy, Kinetic energy and potential energy	8	To determine the thickness of glass strip using a spherometer
	16		Law of conservation of energy with derivation, Power-definition, formula and units		
2nd Sessional test					
9	17		Discussion of sessional	9	To determine the radius of curvature of a given spherical surface using spherometer
	18		Elasticity and plasticity, deforming and restoring force		
10	19		Definition of stress and strain, Hooke's law	**10**	To verify parallelogram law of forces
	20		Types of modulus of elasticity		
11	21		Pressure-atmospheric pressure, gauge		

	22		Surface tension and applications	11	To determine atmospheric pressure using Fortin's barometer
12	23		Viscosity-definition, examples and effect of	12	To determine force constant of a spring using Hooke's law
	24		Definition of heat and temperature, Difference between heat and temperature		
13	25		Principle and working of mercury thermometer	13	Checking of files & viva-voce
	26		Modes of transfer of heat-conduction, convection, radiation , Different scales of temperature and their relationship		
3rd Sessional test					
14	27		Revision of Unit 1 and Unit 2	14	To measure room temperature with the help of thermometer and convert to different scales
	28		Revision of Unit 3 and Unit 4		
15	29		Revision of Unit 5 and numerical problem	15	Revision of Practicals
	30		Discussion of previous year Q. Papers		

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Mr. Mayur Rohilla (Guest Faculty)
DISCIPLINE : Mech B
SEMESTER : 1st
SUBJECT : ESDM
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Lectures = 02

WEEK			THEORY
	LECTURE DAY		TOPIC (WITH ASSIGNMENT & TESTS)
1	1		**Introduction**
	2		Basics of ecology, Eco system- concept
2	3		Sustainable development
	4		Renewable and non-renewable Sources of energy and their advantages & disadvantages
3	5		Rain water harvesting
	6		Deforestation – its effects & control measures
4	7		Air Pollution: Source of air pollution
	8		Effect of air pollution on human health, economy, Air pollution control methods
			1st sessional test
5	9		Defination and Source of noise pollution, Unit of noise, Effect of noise pollution, Acceptable noise level, Different method of minimizing noise pollution
	10		Revision of Soil and Noise Pollution
6	11		Water Pollution: Impurities in water, Cause of water pollution
	12		Source of water pollution.Effect of water pollution on human health, Concept of DO, BOD COD
7	13		Prevention of water pollution- Water treatment processes, Sewage treatment
	14		Water quality standard. Defination and Sources of soil pollution
8	15		Effects and Control of soil pollution, Types of Solid waste- House hold, Industrial, Agricultural, Biomedical,
	16		Disposal of solid waste, Solid waste management E-waste, E – waste management
			2nd sessional test
9	17		Impact of Energy Usage on Environment Global Warming
	18		Green House Effect, Depletion of Ozone Layer, Acid Rain
10	19		Eco-friendly Material, Recycling of Material, Concept of Green Buildings
	20		Concept of Carbon Credit & Carbon footprint.
11	21		Revision of Impact of Energy Usage on Environment

	22		Natural Disaster: such as Flood, Cyclone
12	23		Natural Disaster: Earthquakes and Landslides etc
	24		Man-made Disaster: such as Fire, Industrial Pollution
13	25		Man-made Disaster: Nuclear Disaster, Biological Disasters, Accidents (Air, Sea Rail & Road)
	26		Man-made Disaster: Structural failures (Building and Bridge), War & Terrorism etc.
14	27		Disaster Preparedness Plan Prediction, Disaster Preparedness Early Warnings and Safety Measures of Disaster
	28		Psychological response and Management (Trauma, Stress), Psychological response and Management (Rumour and Panic)
3rd Sessional test			
15	29		Revision and discussion of previous year Q. Papers
	30		Revision and discussion of previous year Q. Papers

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Lavaney Mahajan (Guest Faculty)

DISCIPLINE : Comp, Civil B, Auto, Plastic

SEMESTER :FIRST

SUBJECT : APPLIED PHYSICS

LESSION PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : Lectures = 2+2+2+2 Practicals = 4+4+4+2

WEEK	THEORY			PRACTICAL	
	LECTURE DAY		TOPIC (WITH ASSIGNMENT & TESTS)		TOPIC
1	1		Definition of physics and physical quantities	1	Familiarization of measuring instruments-Vernier caliper, screw gauge spherometer
	2		Units-fundamental and derived units		
2	3		System of units-FPS, CGS, MKS, SI	2	To find the diameter of a solid cylinder using Vernier caliper
	4		Dimensions and dimensional formulae		
3	5		SI unit and dimensions of some physical quantities	3	To find the internal diameter and depth of a beaker using Vernier calliper
	6		Dimensional equations and principle of homogeneity		
4	7		scalar and vector quantities with examples, Vector addition-triangle and parallelogram law and	4	Checking of files and viva voce
	8		Force, its units and resolution of force, Newton's laws of motion with examples		
1st Sessional test					
5	9		Discussion of sessional	5	To find the diameter of wire using screw gauge
	10		Linear momentum, impulse and law of conservation		
6	11		Angular displacement, velocity, acceleration, time period, frequency	6	To find thickness of paper using screw gauge.
	12		Relation between linear and angular velocity		
7	13		Centripetal and centrifugal force and banking of roads	7	Checking of files & viva-voce
	14		Work-definition, formula and unit and types of work,		
8	15		Energy-definition, units and transformation of energy, Kinetic energy and potential energy	8	To determine the thickness of glass strip using a spherometer
	16		Law of conservation of energy with derivation, Power-definition, formula and units		
2nd Sessional test					
9	17		Discussion of sessional	9	To determine the radius of curvature of a given spherical surface using spherometer
	18		Elasticity and plasticity, deforming and restoring force		
10	19		Definition of stress and strain, Hooke's law	**10**	To verify parallelogram law of forces
	20		Types of modulus of elasticity		

11	21		Pressure-atmospheric pressure, gauge	11	To determine atmospheric pressure using Fortin's barometer
	22		Surface tension and applications		
12	23		Viscosity-definition, examples and effect of	12	To determine force constant of a spring using Hooke's law
	24		Definition of heat and temperature, Difference between heat and temperature		
13	25		Principle and working of mercury thermometer	13	Checking of files & viva-voce
	26		Modes of transfer of heat-conduction, convection, radiation , Different scales of temperature and their relationship		
3rd Sessional test					
14	27		Revision of Unit 1 and Unit 2	14	To measure room temperature with the help of thermometer and convert to different scales
	28		Revision of Unit 3 and Unit 4		
15	29		Revision of Unit 5 and numerical problem	15	Revision of Practicals

PERFORMA OF LESSON PLAN

Subject: Applied Maths
Name of Faculty: Visiting Faculty
Discipline: Civil A, Mech A, Plastic, Arch, ECE
Work Load Per week: 4+4+4+4+4

Week	DAY	Theory (Topics)	Coverage Date
1	1	Definition of complex number, real and imaginary parts	
	2	Polar and Cartesian Form and their inter conversion	
	3	Conjugate of a complex number	
	4	Modulus/argument of complex No	
2	1	Addition subtraction, multiplication and division of complex number.	
	2	Numericals complex number And Assignment-I	
	3	Fundamental Rules of Logarithms	
	4	Logarithm Conversation Log to exp and vice versa	
3	1	Numericals Logarithms	
	2	Numericals And Assignment-II	
	3	Factorial	
	4	Permutation, combination	
4	1	Binomial theorem expansion	
	2	General Term, Middle Term/ Co- eff of xn	
	3	Binomial theorem for any index And Assignment-III	
	4	Revision	
1st Sessional test			
5	1	Matrics: Define/Types	
	2	Addition subtraction of Matrices	
	3	Multiplication of Matrices	
	4	Determinants (up to 2 order) by laplace method	
6	1	Solution of equation by Cramer's Rule And Assignment-IV	
	2	Trigonometry: Concept of angle: measurement of angle	
	3	Conversion of angles	
	4	Fundamental Identities, Allied angles	
7	1	Addition and subtraction formula	
	2	Addition and subtraction formula Numericals	
	3	Transformation formula	
	4	Numericals	
8	1	Numericals	
	2	Application: Angle of elevation/height/distance	
	3	Numericals And Assignment-V	
	4	Revision	
2nd Sessional test			
9	1	Point: Distance Formula	
	2	Mid Point Formula	
	3	Area of Triangle	
	4	Straight line: Slope of a line	
10	1	Equation of straight line in various standards forms	
	2	Equation of straight line in various standards forms	
	3	Intersection of two straight lines, concurrency of lines	
	4	Angle between two straight lines, parallel and perpendicular lines	
11	1	Perpendicular distance formula,	

	2	Conversion of general form of equation to the various forms And Assignment-VI	
	3	Circle: General equation of a circle	
	4	Centre and radius of circle	
12	1	Find Standard equation of circle and centre and radius	
	2	Find general equation of circle and centre and radius	
	3	To find the equation of a circle, given three points lying on it	
	4	To find the equation of a circle given coordinates of end points of a diameter, Assignment-VII	
13	1	Theoretical Introduction of MATLAB	
	2	Addition and subtraction of values Trigonometric functions	
	3	Addition and subtraction of values Inverse Trigonometric functions	
	4	General Practice And Assignment-VIII	
		3rd Sessional test	
14	1	Practice of Previous Question Papers	
	2	Practice of Previous Question Papers	
	3	Practice of Previous Question Papers	
	4	Practice of Previous Question Papers	
15	1	Revision	
	2	Revision	
	3	Revision	
	4	Revision	

PERFORMA OF LESSON PLAN

Subject: Applied Maths

Name of Faculty: Ms. Kanupriya (Lecturer)

Discipline: Comp, Civil B, Mech B, Electrical, Auto

Work Load Per week: 4+4+4+4+4

Week	DAY	Theory (Topics)	Coverage Date
1	1	Definition of complex number, real and imaginary parts	
	2	Polar and Cartesian Form and their inter conversion	
	3	Conjugate of a complex number	
	4	Modulus/argument of complex No	
2	1	Addition subtraction, multiplication and division of complex number.	
	2	Numericals complex number And Assignment-I	
	3	Fundamental Rules of Logarithms	
	4	Logarithm Conversation Log to exp and vice versa	
3	1	Numericals Logarithms	
	2	Numericals And Assignment-II	
	3	Factorial	
	4	Permutation, combination	
4	1	Binomial theorem expansion	
	2	General Term, Middle Term/ Co- eff of xn	
	3	Binomial theorem for any index And Assignment-III	
	4	Revision	
1st Sessional test			
5	1	Matrics: Define/Types	
	2	Addition subtraction of Matrices	
	3	Multiplication of Matrices	
	4	Determinants (up to 2 order) by laplace method	
6	1	Solution of equation by Cramer's Rule And Assignment-IV	
	2	Trigonometry: Concept of angle: measurement of angle	
	3	Conversion of angles	
	4	Fundamental Identities, Allied angles	
7	1	Addition and subtraction formula	
	2	Addition and subtraction formula Numericals	
	3	Transformation formula	
	4	Numericals	
8	1	Numericals	
	2	Application: Angle of elevation/height/distance	
	3	Numericals And Assignment-V	
	4	Revision	
2nd Sessional test			
9	1	Point: Distance Formula	
	2	Mid Point Formula	
	3	Area of Triangle	
	4	Straight line: Slope of a line	
10	1	Equation of straight line in various standards forms	
	2	Equation of straight line in various standards forms	
	3	Intersection of two straight lines, concurrency of lines	
	4	Angle between two straight lines, parallel and perpendicular lines	
11	1	Perpendicular distance formula,	

	2	Conversion of general form of equation to the various forms And Assignment-VI	
	3	Circle: General equation of a circle	
	4	Centre and radius of circle	
12	1	Find Standard equation of circle and centre and radius	
	2	Find general equation of circle and centre and radius	
	3	To find the equation of a circle, given three points lying on it	
	4	To find the equation of a circle given coordinates of end points of a diameter, Assignment-VII	
13	1	Theoretical Introduction of MATLAB	
	2	Addition and subtraction of values Trigonometric functions	
	3	Addition and subtraction of values Inverse Trigonometric functions	
	4	General Practice And Assignment-VIII	
		3rd Sessional test	
14	1	Practice of Previous Question Papers	
	2	Practice of Previous Question Papers	
	3	Practice of Previous Question Papers	
	4	Practice of Previous Question Papers	
15	1	Revision	
	2	Revision	
	3	Revision	
	4	Revision	

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Mr. Ravinder Kumar (Lecturer)
DISCIPLINE : Mech A, Auto
SEMESTER : 1st
SUBJECT : ESDM
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Lectures = 02 +02

WEEK		THEORY	
	LECTURE DAY		TOPIC (WITH ASSIGNMENT & TESTS)
1	1		**Introduction**
	2		Basics of ecology, Eco system- concept
2	3		Sustainable development
	4		Renewable and non-renewable Sources of energy and their advantages & disadvantages
3	5		Rain water harvesting
	6		Deforestation – its effects & control measures
4	7		Air Pollution: Source of air pollution
	8		Effect of air pollution on human health, economy, Air pollution control methods
1st sessional test			
5	9		Defination and Source of noise pollution, Unit of noise, Effect of noise pollution, Acceptable noise level, Different method of minimizing noise pollution
	10		Revision of Soil and Noise Pollution
6	11		Water Pollution: Impurities in water, Cause of water pollution
	12		Source of water pollution.Effect of water pollution on human health, Concept of DO, BOD, COD
7	13		Prevention of water pollution- Water treatment processes, Sewage treatment
	14		Water quality standard. Defination and Sources of soil pollution
8	15		Effects and Control of soil pollution, Types of Solid waste- House hold, Industrial, Agricultural, Biomedical,
	16		Disposal of solid waste, Solid waste management E-waste, E – waste management
2nd sessional test			
9	17		Impact of Energy Usage on Environment Global Warming
	18		Green House Effect, Depletion of Ozone Layer, Acid Rain
10	19		Eco-friendly Material, Recycling of Material, Concept of Green Buildings
	20		Concept of Carbon Credit & Carbon footprint.
11	21		Revision of Impact of Energy Usage on Environment

	22		Natural Disaster: such as Flood, Cyclone
12	23		Natural Disaster: Earthquakes and Landslides etc
	24		Man-made Disaster: such as Fire, Industrial Pollution
13	25		Man-made Disaster: Nuclear Disaster, Biological Disasters, Accidents (Air, Sea Rail & Road)
	26		Man-made Disaster: Structural failures (Building and Bridge), War & Terrorism etc.
14	27		Disaster Preparedness Plan Prediction, Disaster Preparedness Early Warnings and Safety Measures of Disaster
	28		Psychological response and Management (Trauma, Stress), Psychological response and Management (Rumour and Panic)
3rd Sessional test			
15	29		Revision and discussion of previous year Q. Papers
	30		Revision and discussion of previous year Q. Papers

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Ravinder Kumar (Lecturer)
DISCIPLINE : Civil B, Arch, Plastic
SEMESTER : First
SUBJECT : APPLIED CHEMISTRY (Theory)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Lectures = 3+3+3

WEEK	THEORY		
	LECTURE DAY		TOPIC (WITH ASSIGNMENT & TESTS)
1	1		Introduction of Atomic Structure, Bohr's model of atom
	2		Dual character of matter: derivation of de-Broglie's equation Heisenberg's Principle of Uncertainty, modern concept of atomic structure
	3		Definition of orbitals shapes of s, p and d-orbitals
2	4		Quantum numbers and their significance
	5		Aufbau and Pauli's exclusion principles Hund's rule
	6		Electronic configuration of elements up to atomic number 30.
3	7		Periodic Table Modern Periodic law and Periodic table, Classification of elements into s, p
	8		Classification of elements into d, f-blocks,metals, non-metals and
	9		Chemical bonding: cause of bonding, ionic bond Physical
4	10		Covalent bond, and metallic bond (electronsea or gas model),
	11		Doubt Quarries and Revision
	12		Metals: mechanical properties of metals such as conductivity, elasticity, strength and stiffness, luster, hardness, toughness, ductility, malleability
1st Sessional test			
5	13		Metals: mechanical properties of metals such as, brittleness, and impact resistance and their uses. Definition of a mineral, ore, gangue, flux and slag
	14		Metallurgy of iron from haematite using a blast furnace Commercial varieties of iron
	15		Alloys: definition, necessity of making alloys, composition, properties and uses of duralumin andsteel. Heat treatment of steel-normalizing, annealing, quenching, tempering.
6	16		Doubt Quarries and Revision
	17		Solutions: definition, expression of the concentration of a solution in percentage (w/w, w/v and v/v), normality, molarity and molality and ppm.
	18		Simple problems on solution preparation
7	19		Arrhenius concept of acids and bases, strong and weak acids and bases, pH value of a solution and its significance, pH scale
	20		Simple numerical problems on pH of acids and bases.
	21		Hard and soft water, causes of hardness of water, types of hardness – temporary and permanent hardness

8	22		Expression of hardness of water, ppm unit of hardness; disadvantages of hard water; removal of hardness
	23		Removal of temporary hardness by boiling and Clark's method; removal of permanent hardness of water by Ion-Exchange method
	24		Boiler problems caused by hard water: scale and sludge formation, priming and foaming, caustic embrittlement; water sterilization by chlorine, UV radiation and RO
9	25		Doubt Quarries and Revision
	26		Fuels: definition and classification of higher and lower calorific
	27		Characteristics of an ideal fuel. Petroleum: composition and refining of petroleum
2^{nd} Sessional Test			
10	28		Gaseousfuels: composition, properties and uses of CNG, PNG, LNG, LPG
	29		Relative advantages of liquid and gaseous fuels over solid fuels. Scope of hydrogen as future fuel.
	30		Lubricants- Functions and qualities of a good lubricant, classification of lubricants
11	31		Lubrication mechanism (brief idea only
	32		Physical properties (brief idea only) of a lubricant: oiliness, viscosity, viscosity index, flash and fire point, ignition temperature, pour point.
	33		Doubt Quarries and Revision
12	34		Polymers and Plastics: definition of polymer, classification, addition and condensation polymerization
	35		Preparation properties and uses of polythene, PVC, Nylon-66
	36		Preparation properties and uses Bakelite; definition of plastic
13	37		Thermoplastics and thermosetting polymers; natural rubber and neoprene, other synthetic rubbers (names only).
	38		Corrosion: definition, dry and wet corrosion
	39		Factors affecting rate of corrosion, methods of prevention of corrosion—hot dipping
14	40		Prevention of corrosion metal cladding, cementation, quenching, cathodic protection methods
	41		Introduction and application of nanotechnology: nano-materials
	42		Classification, applications of nanotechnology in various
3^{rd} Sessional test			
15	43		Doubt Quarries and Revision
	44		Revision and discussion of previous year Q. Papers
	45		Revision and discussion of previous year Q. Papers

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY : Ravinder Kumar (Lecturer)
DISCIPLINE : Civil B, Plastic
SEMESTER : First
SUBJECT : APPLIED CHEMISTRY (Practical)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Practicals = 4+2

WEEK	Practical			
	LECTURE DAY	Coverage date		Name of Practical
		G1	G2	
1	1			To prepare standard solution of oxalic acid
2	2			To dilute the given KMnO4 solution
3	3			To find out the strength in grams per litre of an unknown solution of sodium hydroxide using astandard (N/10) oxalic acid solution
4	4			Checking of Practical Files
5	5			To find out the total alkalinity in parts per million (ppm) of a water sample with the help of astandard sulphuric acid solution.
6	6			To determine the total hardness of given water sample by EDTA method
7	7			Checking of Practical Files
8	8			To determine the total hardness of given water sample by EDTA method
9	9			To determine the amount of total dissolved solids(TDS) in ppm in a given sample of watergravimetrically
10	10			To determine the pH of different solutions using a digital pH meter
11	11			To determine the calorific value of a solid/liquid fuel using a Bomb calorimeter
12	12			Checking of Practical Files & Viva
13	13			To determine the viscosity of a lubricating oil using a Redwood viscometer
14	14			To prepare a sample of Phenol-formaldehyde resin (Bakelite)/Nylon-66 in the lab
15	15			Checking of Practical Files & Viva

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY :Dr. Sunita Rani (HOD Applied Science)
DISCIPLINE : Civil A
SEMESTER : First
SUBJECT : APPLIED CHEMISTRY (Theory)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Lectures 3

WEEK	THEORY		
	LECTURE DAY		TOPIC (WITH ASSIGNMENT & TESTS)
1	1		Introduction of Atomic Structure, Bohr's model of atom
	2		Dual character of matter: derivation of de-Broglie's equation Heisenberg's Principle of Uncertainty, modern concept of atomic structure
	3		Definition of orbitals shapes of s, p and d-orbitals
2	4		Quantum numbers and their significance
	5		Aufbau and Pauli's exclusion principles Hund's rule
	6		Electronic configuration of elements up to atomic number 30.
3	7		Periodic Table Modern Periodic law and Periodic table, Classification of elements into s, p
	8		Classification of elements into d, f-blocks,metals, non-metals and
	9		Chemical bonding: cause of bonding, ionic bond Physical
4	10		Covalent bond, and metallic bond (electronsea or gas model),
	11		Doubt Quarries and Revision
	12		Metals: mechanical properties of metals such as conductivity, elasticity, strength and stiffness, luster, hardness, toughness, ductility, malleability
1st Sessional test			
5	13		Metals: mechanical properties of metals such as, brittleness, and impact resistance and their uses. Definition of a mineral, ore, gangue, flux and slag
	14		Metallurgy of iron from haematite using a blast furnace Commercial varieties of iron
	15		Alloys: definition, necessity of making alloys, composition, properties and uses of duralumin andsteel. Heat treatment of steel-normalizing, annealing, quenching, tempering.
6	16		Doubt Quarries and Revision
	17		Solutions: definition, expression of the concentration of a solution in percentage (w/w, w/v and v/v), normality, molarity and molality and ppm.
	18		Simple problems on solution preparation
7	19		Arrhenius concept of acids and bases, strong and weak acids and bases, pH value of a solution and its significance, pH scale
	20		Simple numerical problems on pH of acids and bases.
	21		Hard and soft water, causes of hardness of water, types of hardness – temporary and permanent hardness
8	22		Expression of hardness of water, ppm unit of hardness; disadvantages of hard water; removal of hardness

	23		Removal of temporary hardness by boiling and Clark's method; removal of permanent hardness of water by Ion-Exchange method
	24		Boiler problems caused by hard water: scale and sludge formation, priming and foaming, caustic embrittlement; water sterilization by chlorine, UV radiation and RO
9	25		Doubt Quarries and Revision
	26		Fuels: definition and classification of higher and lower calorific
	27		Characteristics of an ideal fuel. Petroleum: composition and refining of petroleum
			2^{nd} Sessional Test
10	28		Gaseousfuels: composition, properties and uses of CNG, PNG, LNG, LPG
	29		Relative advantages of liquid and gaseous fuels over solid fuels. Scope of hydrogen as future fuel.
	30		Lubricants- Functions and qualities of a good lubricant, classification of lubricants
11	31		Lubrication mechanism (brief idea only
	32		Physical properties (brief idea only) of a lubricant: oiliness, viscosity, viscosity index, flash and fire point, ignition temperature, pour point.
	33		Doubt Quarries and Revision
12	34		Polymers and Plastics: definition of polymer, classification, addition and condensation polymerization
	35		Preparation properties and uses of polythene, PVC, Nylon-66
	36		Preparation properties and uses Bakelite; definition of plastic
13	37		Thermoplastics and thermosetting polymers; natural rubber and neoprene, other synthetic rubbers (names only).
	38		Corrosion: definition, dry and wet corrosion
	39		Factors affecting rate of corrosion, methods of prevention of corrosion—hot dipping
14	40		Prevention of corrosion metal cladding, cementation, quenching, cathodic protection methods
	41		Introduction and application of nanotechnology: nano-materials
	42		Classification, applications of nanotechnology in various
			3^{rd} Sessional test
15	43		Doubt Quarries and Revision
	44		Revision and discussion of previous year Q. Papers
	45		Revision and discussion of previous year Q. Papers

PERFORMA OF LESSON PLAN

NAME OF THE FACULTY :Dr. Sunita Rani (HOD Applied Science)
DISCIPLINE : Arch ,Civil A
SEMESTER : First
SUBJECT : APPLIED CHEMISTRY (Practical)
LESSION PLAN DURATION : 15 WEEKS
WORK LOAD PER WEEK : Practicals 4+4

WEEK	Practical			
	LECTURE DAY	Coverage date		Name of Practical
		G1	G2	
1	1			To prepare standard solution of oxalic acid
2	2			To dilute the given $KMnO_4$ solution
3	3			To find out the strength in grams per litre of an unknown solution of sodium hydroxide using astandard (N/10) oxalic acid solution
4	4			Checking of Practical Files
5	5			To find out the total alkalinity in parts per million (ppm) of a water sample with the help of astandard sulphuric acid solution.
6	6			To determine the total hardness of given water sample by EDTA method
7	7			Checking of Practical Files
8	8			To determine the total hardness of given water sample by EDTA method
9	9			To determine the amount of total dissolved solids(TDS) in ppm in a given sample of watergravimetrically
10	10			To determine the pH of different solutions using a digital pH meter
11	11			To determine the calorific value of a solid/liquid fuel using a Bomb calorimeter
12	12			Checking of Practical Files & Viva
13	13			To determine the viscosity of a lubricating oil using a Redwood viscometer
14	14			To prepare a sample of Phenol-formaldehyde resin (Bakelite)/Nylon-66 in the lab
15	15			Checking of Practical Files & Viva