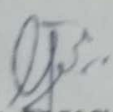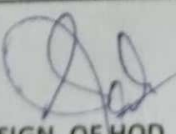# KALAM INSTITUTE OF TECHNOLOGY, BERHAMPUR
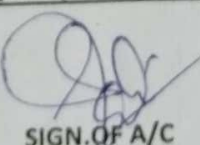
LESSON PLAN
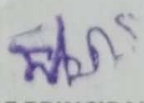
DISCIPLINE: MATH AND SCIENCE	SEMESTER: 2ND		NAME OF THE TEACHING FACULTY: Mr. JAGABANDHU GOUDA (Lecturer in English)		
SUBJECT: COMMUNICATIVE ENGLISH Th.1a.	NO. OF DAY / WEEK/ CLASS ALLOTED:04		SEMESTER FROM DATE: 29/01/2024 TO DATE: 14/05/2024 BRANCH-MECHANICAL ENGG. (SEC-D) NO. OF WEEKS:15		
WEEKS	CLASS DAYS	DATE	UNIT	THEORY	
				INTRODUCTION	
1st	1st	29-01-2024			
	2nd	30-01-2024	1.1	Skimming the gist & scanning for necessary information	
	3rd	01-02-2024	1.1	Close reading for inference and evaluation & Guessing the meaning of un-familiar words	
	4th	02-02-2024	1.1	Supplying a suitable title & Note- Making,Summarizing	
2nd	1st	05-02-2024	2	Uses of synonyms,antonyms	
	2nd	07-02-2024	2	Uses os Homonyms	
	3rd	08-02-2024	2	Single word substitute	
	4th	09-02-2024	1.1	Reading Practice(Standing up for yourself)	
3rd	1st	12-02-2024	1.1	Comprehensive test and Question and Answer Discussion	
	2nd	15-02-2024	1.1	Comprehensive test and Question and Answer Discussion	
	3rd	16-02-2024	3	Application of English Grammar Introduction of Parts of Speech	
4th	1st	19-02-2024	3	Uses of Countable and Uncountable Noun	
	2nd	21-02-2024	3	Uses of Article,Uses of Derterminers	
	3rd	22-02-2024	4	**Formal Writing Skills** Paragraph writing(Meaning,features,developing ideas into paragraphs)	
	4th	23-02-2024		Paragraph writing(Meaning,features,developing ideas into paragraphs)	
5th	1st	26-02-2024	4	Notice Writing	
	2nd	28-02-2024	4	Agenda	
	3rd	29-02-2024	1.2	**Literature Appreciation** Text-The Magic of Teamwork (Reading Comprihension)	
	4th	01-03-2024	1.2	Text-The Magic of Teamwork (Reading Comprihension)	
6th	1st	04-03-2024	5	**Elements of Communication** Introduction to Communication(Meaning,Definitionand Concept and communication)	
	2nd	06-03-2024	5	Good Communication and Bad Communication	
	3rd	07-03-2024	5	Communication Model(One way and two way Communication)	
7th	1st	11-03-2024	5	Process of Communication and Factors responsible for it (sender,message,channel,receiver/Audience,Feedback,Noise,Context)	
	2nd	13-03-2024	5	Process of Communication and Factors responsible for it (sender,message,channel,receiver/Audience,Feedback,Noise,Context)	
	3rd	14-03-2024	5	**Professional Communication** Meaning and types of Professional Communication	
	4th	15-03-2024	5	Upward, Downward, Parallel Communication	

8th	1st	18-03-2024	1.2	Text(Inchcape Rock)
	2nd	20-03-2024	1.2	Text(Inchcape Rock)
	3rd	21-03-2024	1.2	Text(To My True Friend)
	4th	22-03-2024	1.2	Text(To My True Friend)
9th	1st	27-03-2024	3	**Application of English Grammar** Uses of Modal Verbs
	2nd	28-03-2024	3	**Application of English Grammar** Uses of Modal Verbs
10th	1st	03-04-2024	3	Tense Pattern
	2nd	04-04-2024	3	Crrect uses of Tense Pattern,Note Verification
	3rd	05-04-2024		Crrect uses of Tense Pattern,Note Verification
11th	1st	08-04-2024	4	**Letter Writing** Personal Letters
	2nd	10-04-2024	4	Letter to Principal,Librarian,HOD,Hostel Superintendent
	3rd	12-04-2024	4	Letter to Principal,Librarian,HOD,Hostel Superintendent
12th	1st	15-04-2024	4	**Report Writing** Format of a Report,Reporting an event/News
	2nd	18-04-2024	4	Format of a Report,Reporting an event/News
	3rd	19-04-2024		Format of a Report,Reporting an event/News
13th	1st	22-04-2024	5	Informal Communication
	2nd	24-04-2024	5	Non-Verbal Communication(Meaning and Types of Communication)
	3rd	25-04-2024	5	Kinesics or Body Language, Postures and Gestures,Facial Expression and Eye Contact
	4th	26-04-2024	5	Proxemics or Spatial language (Private space, Personal space, Social space, Public space),Note Verification
			5	Language of Sign and symbols, (Audio sign and visual sign in every day life with marits and demarits)
14th	1st	29-04-2024	5	Language of Sign and symbols, (Audio sign and visual sign in every day life with marits and demarits)
	2nd	01-05-2024	4	**Writing Business letters** Layout of Business letters (Enquiry, placing an order)
	3rd	02-05-2024	4	Excution of an order, Complaint, Cancellation of an order,Assignment
	4th	03-05-2024	4	Excution of an order, Complaint, Cancellation of an order,Assignment
15th	1st	06-05-2024	4	**Job Application and CV** Features
	2nd	08-05-2024	4	Format (note writing) Practice
	3rd	09-05-2024	4	Quick Revision
	4th	10-05-2024	4	Previous year question discussion,Note Verification
	5th	13-05-2024	4	Previous year question discussion,Note Verification

SIGN. OF FACULTY   SIGN. OF HOD   SIGN. OF A/C   SIGN. OF PRINCIPAL

KALAM INSTITUTE OF TECHNOLOGY, BERHAMPUR

LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER: 2ND	NAME OF THE TEACHING FACULTY: Jinita Sahu (Lect. in English)	
SUBJECT: COMMUNICATIVE ENGLISH Th.1a.	NO. OF DAY / WEEK/ CLASS ALLOTED:04	SEMESTER FROM DATE: 29/01/2024 TO DATE: 14/05/2024 BRANCH-MECHANICAL ENGG. (SEC-C) NO. OF WEEKS:15	

WEEKS	CLASS DAYS	DATE	UNIT	THEORY
	1st	29/01/24		**INTRODUCTION**
	2nd	31/01/24	1.1	Skimming the gist & scanning for necessary information
1st	3rd	2/02/24	1.1	Close reading for inference and evaluation & Guessing the meaning of un-familiar words
	4th	03/02/24	1.1	Supplying a suitable title & Note- Making,Summarizing
	1st	05/02/24	2	Uses of synonyms,antonyms
	2nd	07/02/24	2	Uses os Homonyms
2nd	3rd	09/02/24	2	Single word substitute
	4th	10/02/24	1.1	Reading Practice(Standing up for yourself)
		12/02/24		
	1st	16/02/24	1.1	Comprehensive test and Question and Answer Discussion
	2nd	17/02/24	1.1	Comprehensive test and Question and Answer Discussion
3rd	3rd	19/02/24	3	Application of English Grammar Introduction of Parts of Speech
		21/2/24		
	1st	23/02/24	3	Uses of Countable and Uncountable Noun
	2nd	24/02/24	3	Uses of Article,Uses of Derterminers
4th	3rd	26/02/24	4	**Formal Writing Skills** Paragraph writing(Meaning,features,developing ideas into paragraphs)
	4th	28/02/24		Paragraph writing(Meaning,features,developing ideas into paragraphs)
	1st	01/03/24	4	Notice Writing
	2nd	02/03/24	4	Agenda
5th	3rd	04/03/24	1.2	**Literature Appreciation** Text-The Magic of Teamwork (Reading Comprihension)
	4th	09/03/24	1.2	Text-The Magic of Teamwork (Reading Comprihension)
	1st	11/03/24 13/03/24	5	**Elements of Communication** Introduction to Communication(Meaning,Definitionand Concept and communication)
6th	2nd	15/03/24	5	Good Communication and Bad Communication
	3rd	16/03/24	5	Communication Model(One way and two way Communication)
	1st	18/03/24	5	Process of Communication and Factors responsible for it (sender,message,channel,receiver/Audience,Feedback,Noise,Context)
	2nd	20/03/24	5	Process of Communication and Factors responsible for it (sender,message,channel,receiver/Audience,Feedback,Noise,Context)
7th	3rd	27/03/24	5	**Professional Communication** Meaning and types of Professional Communication
	4th	23/03/24	5	Upward, Downward, Parallel Communication

8th	1st	27/03/24	1.2	Text(Inchcape Rock)
	2nd	30/03/24	1.2	Text(Inchcape Rock)
	3rd	03/04/24	1.2	Text(To My True Friend)
	4th	05/04/24	1.2	Text(To My True Friend)
9th	1st	06/04/24	3	**Application of English Grammar** Uses of Modal Verbs
	2nd	08/04/24	3	**Application of English Grammar** Uses of Modal Verbs
10th	1st	10/4/24 12/04/24	3	Tense Pattern
	2nd	13/04/24	3	Crrect uses of Tense Pattern,Note Verification
	3rd	15/04/24		Crrect uses of Tense Pattern,Note Verification
11th	1st	19/04/24	4	**Letter Writing** Personal Letters
	2nd	20/04/24	4	Letter to Principal,Librarian,HOD,Hostel Superintendent
	3rd	22/04/24	4	Letter to Principal,Librarian,HOD,Hostel Superintendent
12th	1st	24/04/24	4	**Report Writing** Format of a Report,Reporting an event/News
	2nd	26/04/24	4	Format of a Report,Reporting an event/News
	3rd	27/04/24		Format of a Report,Reporting an event/News
13th	1st	29/04/24	5	Informal Communication
	2nd	01/05/24	5	Non-Verbal Communication(Meaning and Types of Communication)
	3rd	03/05/24	5	Kinesics or Body Language, Postures and Gestures,Facial Expression and Eye Contact
	4th	04/05/24	5	Proxemics or Spatial language (Private space, Personal space, Social space, Public space),Note Verification
			5	Language of Sign and symbols, (Audio sign and visual sign in every day life with marits and demarits)
14th	1st	04/05/24	5	Language of Sign and symbols, (Audio sign and visual sign in every day life with marits and demarits)
	2nd	06/05/24	4	**Writing Business letters** Layout of Business letters (Enquiry, placing an order)
	3rd	07/05/24	4	Excution of an order, Complaint, Cancellation of an order,Assignment
	4th	08/05/24	4	Excution of an order, Complaint, Cancellation of an order,Assignment
15th	1st	10/05/24	4	**Job Application and CV** Features
	2nd	10/05/24	4	Format (note writing) Practice
	3rd	11/05/24	4	Quick Revision
	4th	11/05/24	4	Previous year question discussion,Note Verification
	5th	13/5/24	4	Previous year question discussion,Note Verification

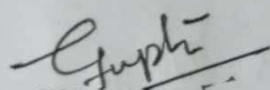SIGN. OF FACULTY   SIGN. OF HOD   SIGN.OF A/C   SIGN. OF PRINCIPAL
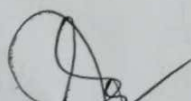
KALAM INSTITUTE OF TECHNOLOGY(P),BERHAMPUR

LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER:2nd	NAME OF THE TEACHING FACULTY: Mr. GUPTA PRASAD DAS (Lecturer in PHYSICS)		
SUBJECT: ENGG.PHYSICS Th.2a	NO. OF DAY /WEEK CLASS ALLOTED:04	SEMESTER FROM DATE: 29-01-2024 TO DATE: 14-05-2024 BRANCH-ELECTRICAL ENGG. (SEC-C) NO. OF WEEKS:15		

WEEKS	CLASS DAYS	DATE	UNIT	THEORY -TOPIC	REMARK
1st	1st	29-01-2024		**INTRODUCTION**	
	2nd	30-01-2024	1	Physical quantities,Dimension	
	3rd	01-02-2024	1	Dimensional formulae of P.Q., equations & Principal of homeogeneity	
	4th	02-02-2024	1	Checking the Dimensional correctness of physical relations & Numericals,Assignment	
2nd	1st	05-02-2024	2	Scalar and Vector quantities,Representation of a Vector	
	2nd	06-02-2024	2	Triangle and Parallelogram law of vector Addition,Simple Numericals	
	3rd	08-02-2024	2	Resolution of Vectors,Vector multiplication & Simple Numericals,Assignment	
	4th				
3rd	1st	09-02-2024	8	Reflection & Refraction Defn.,Laws of reflection and refraction,Refractive index Critical Angle and Total internal reflection	
	2nd	12-02-2024	8	Refraction through Prism & Simple Numericals	
	3rd	13-02-2024	8	Fiber Optics ,Assignment	
	4th				
4th	1st	15-02-2024	3	Concept of Rest and Motion,Displacement, Speed, Velocity, Acceleration & FORCE (Definition, formula,dimension & SI units)	
	2nd	16-02-2024	3	Equations of Motion under Gravity,Circular motion: Angular displacement, Angular velocity and Angular acceleration (definition, formula & SI units)	
	3rd	19-02-2024	3	Relation between –(i) Linear & Angular velocity, (ii) Linear & Angular acceleration Define Projectile, Examples of Projectile	
	4th	20-02-2024	3	Expression for Equation of Trajectory, Time of Flight, Maximum Height and Horizontal	
5th	1st	22-02-2024	3	Range for a projectile fired at an angle, Condition for maximum Horizontal Range.	
	2nd	23-02-2024	4	Work,Friction(Definition, Formula & SI units),Types of friction (static, dynamic)	
	3rd	26-02-2024	4	Limiting Friction,Laws of Limiting Friction,Coefficient of Friction	
	4th	27-02-2024	4	Coefficient of Friction,Methods to reduce friction,Simple Numericals	
6th	1st	29-02-2024	5	Newton's laws of Gravitation	
	2nd	01-03-2024	5	Newton's laws of Gravitation	
	3rd	04-03-2024	5	Universal Gravitational Constant (G),Acceleration due to gravity (g)	
	4th	07-03-2024	5	Definition of mass and weight,Relation between g and G	
7th	1st	11-03-2024	5	Variation of g with altitude and depth,Simple Numericals	
	2nd	12-03-2024	5	Kepler's Laws of Planetary Motion	
	3rd	14-03-2024	9	Electrostatics(Definition & Concept),Statement & Explanation of Coulombs laws, Defn. of Unit charge	
	4th	15-03-2024	9	Electrostatics(Definition & Concept),Statement & Explanation of Coulombs laws, Defn. of Unit charge	
8th	1st	18-03-2024	9	Absolute & Relative Permittivity (ε),Electric potential and Electric Potential difference, Electric field, Electric field intensity (E)	
	2nd	19-03-2024	9	Capacitance,Series and Parallel combination of Capacitors,Simple numericals	
	3rd	21-03-2024	9	Magnet, Properties of a magnet ,Coulomb's Laws in Magnetism,Unit pole	
	4th	22-03-2024	9	Magnetic field, Magnetic Field intensity (H) ,Magnetic lines of force,Magnetic Flux (Φ) & Magnetic Flux Density (B)	

9th	1st	28-03-2024	6	Simple Harmonic Motion (SHM),Expression for displacement, velocity, acceleration of a body/ particle in SHM Wave motion,Transverse and Longitudinal wave motion
	2nd	02-04-2024	6	Definition of different wave parameters,Derivation of Relation between Velocity, Frequency and Wavelength of a wave
	3rd	04-04-2024	6	Definition of different wave parameters,Derivation of Relation between Velocity, Frequency and Wavelength of a wave
	4th	05-04-2024		Ultrasonics – Definition, Properties & Applications.
10th	1st	08-04-2024	7	Heat and Temperature (Definition & Difference),Units of Heat
	2nd	09-04-2024	7	Specific Heat (concept, definition, unit, dimension and simple numericals)
	3rd	12-04-2024	7	Specific Heat (concept, definition, unit, dimension and simple numericals)
	4th	15-04-2024	7	Change of state (concept), Latent Heat (concept, definition, unit, dimension and simple numerical),Thermal Expansion – Definition & Concept
11th	1st	16-04-2024	7	Expansion of Solids (Concept),Coefficient of linear, superficial and cubical expansions of Solids (Definition & Units).
	2nd	18-04-2024	7	Expansion of Solids (Concept),Coefficient of linear, superficial and cubical expansions of Solids (Definition & Units).
	3rd	19-04-2024		Relation between α, β & γ,Simple Numericals
	4th			
12th	1st	22-04-2024	7	Work and Heat - Concept & Relation.Simple Numericals
	2nd	23-04-2024	7	Joule's Mechanical Equivalent of Heat,First Law of Thermodynamics
	3rd			
	4th			
13th	1st	25-04-2024	10	Electric Current,Ohm's law and its applications
	2nd	26-04-2024	10	Series and Parallel combination of resistors,Kirchhoff's laws,Simple numericals
	3rd	29-04-2024	10	Application of Kirchhoff's laws to Wheatstone bridge - Balanced condition of Wheatstone's Bridge,Simple numericals,Assignment
	4th	30-04-2024	10	Application of Kirchhoff's laws to Wheatstone bridge - Balanced condition of Wheatstone's Bridge,Simple numericals,Assignment
14th	1st	02-05-2024	11	Electromagnetism(Def.&Concept),Force acting on a current carrying conductor placed in a uniform magnetic field
	2nd	03-05-2024	11	Fleming's Left Hand Rule,Faraday's Laws of Electromagnetic Induction
	3rd	06-05-2024	11	Numericals,Assignment
	4th	07-05-2024	11	Lenz's Law,Fleming's Right Hand Rule,Discussion
15th	1st	09-05-2024	11	Comparison between Fleming's Right Hand Rule and Fleming's Left Hand Rule,Simple Numericals,Assignment
	2nd	10-05-2024	12	LASER & laser beam,Principle of LASER
	3rd	13-05-2024	12	Properties & Applications of LASER
	4th	14-05-2024	12	Wireless Transmission,Ground Waves, Sky Waves, Space Waves

SIGN. OF FACULTY   SIGN. OF HOD   SIGN. OF A/C   SIGN. OF PRINCIPAL

KALAM INSTITUTE OF TECHNOLOGY, BERHAMPUR
LESSON PLAN

DISCIPLINE: MATH AND SCIENCE			NAME OF THE TEACHING FACULTY: Er. Manisha Mani		
SEMESTER: 2nd					
SUBJECT: Basic Electrical Engineering [TH-4(b)]	NO. OF CLASSES ALLOTED PER WEEK: 03		SEMESTER FROM DATE:	TO DATE:	SEC- B
			BRANCH- NO. OF WEEKS: 16		
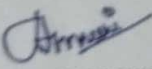
WEEKS	CLASS DAYS	DATE	UNIT	THEORY	REMARK
1st	1st	29/01/2024		Fundamentals- Concept of source & load, current flow	
	2nd	31/01/2024		State ohm's law & Concept of resistance	
	3rd	02/02/2024		Relation of V, I & R in series circuit	
	4th				
	5th				
2nd	1st	05/02/2024		Relation of V, I & R in parallel circuit	
	2nd	07/02/2024		Division of current in parallel circuit	
	3rd	09/02/2024		Effect of power in series & parallel circuit	
	4th				
	5th				
3rd	1st	12/02/2024		Kirchhoff's law, Simple Problems on Kirchhoff's law	
	2nd	14/02/2024		AC theory- Generation of alternating emf	
	3rd				
	4th				
	5th				
4th	1st	19/02/2024		Difference bet^n AC & DC	
	2nd	21/02/2024		Define Amplitude, instantaneous value, cycle	
	3rd	23/02/2024		Time period, frequency, phase angle, phase difference	
	4th			RMS value, Avg value, Amplitude factor, form factor	
	5th			with simple problems	
5th	1st	26/02/2024		Represent AC values in phasor diagram	
	2nd	28/02/2024		AC through pure resistance, inductance & capacitance	
	3rd	01/03/2024		AC through RL, RC, RLC series circuits	
	4th				
	5th				
6th	1st	04/03/2024		Simple problems on RL, RC, & RLC series circuits	
	2nd	06/03/2024		Concept of power & power factor, impedance &	
	3rd			power triangle.	
	4th				
	5th				
7th	1st	11/03/2024		Generation of electrical power	
	2nd	13/03/2024		Give elementary idea on generation of electricity from	
	3rd	15/03/2024		Thermal, hydro & nuclear power station with	
	4th			block diagram	
	5th				
8th	1st	18/03/2024		Conversion of electrical energy	
	2nd	20/03/2024		Introduction of dc machine, Main parts of dc M/c	
	3rd	22/03/2024		classification of dc generator & dc Motor	
	4th				
	5th				

Week	Period	Date	Topic
9th	1st	27/03/2024	uses of different types of dc generators & motors
	2nd		Types and uses of single phase induction
	3rd		motors.
	4th		
	5th		
10th	1st	03/04/2024	concept of lumen
	2nd	05/04/2024	Different types of lamps - filament, LED bulb,
	3rd		fluorescent lamp - its construction & operations
	4th		
	5th		
11th	1st	08/04/2024	Star rating of home appliances - Terminology
	2nd	10/04/2024	Energy efficiency, Star rating concept
	3rd	12/04/2024	List out the basic protective device used in household
	4th		
	5th		
12th	1st	15/04/2024	Wiring & Power billing - Types of wiring for domestic
	2nd	19/04/2024	Layout of house hold electrical wiring
	3rd		(single line diagram showing all the
	4th		important component in the system).
	5th		
13th	1st	22/04/2024	List out & calculate energy consumed in small
	2nd	24/04/2024	Electrical installation (Energy cost)
	3rd	26/04/2024	Measuring Instruments - Introduction
	4th		
	5th		
14th	1st	29/04/2024	Torques in Instruments
	2nd	01/05/2024	Different uses of PMMC & MI types of instruments
	3rd	03/05/2024	(Ammeter & voltmeter)
	4th		
	5th		
15th	1st	05/05/2024	Draw the connection diagram of Ac/DC
	2nd	08/05/2024	Ammeter, voltmeter
	3rd	10/05/2024	Single - phase diagram of Energy meter
	4th		
	5th		
16th	1st	13/05/2024	Wattmeter (single-phase only)
	2nd		
	3rd		
	4th		
	5th		

SIGN. OF FACULTY   SIGN. OF HOD   SIGN.OF I/C   SIGN. OF PRINCIPAL

KALAM INSTITUTE OF TECHNOLOGY (P), BERHAMPUR

2nd sem
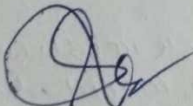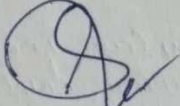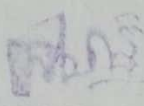
LESSION PLAN			
DISCIPLINE	SEMESTER	NAME OF THE FACULTY	Sagar Sahu
SUBJECT B.ETC	NO. OF DAY/ WEEK CLASS ALLOTED 02	SEMESTER FROM DATE:	29/01/24 TO DATE: 14/05/24 Sec-'B'.
		NO. OF WEEKS: 13	

WEEK	CLASS/DAY	THEROY/ PRACTICAL TOPIC
1	1 30/01/24	Discuss basic concept of Electronics and its application.
	2 06/02/24	Explain basic concept of Electron Emission.
	3	Explain thermionic, secondary, photo emission.
	4	
	5	
2	1 08/02/24	Classification of material according to electrical
	2	conductivity ie. conductor Semiconductor and Insulator
	3 13/02/24	Difference between Intrinsic & Extrinsic Semiconductor.
	4	Difference between Vacuum tube & Semiconductor.
	5	
3	1 15/02/24	Explain principle of working and use of PN Junction Diode
	2 20/02/24	Explain principle of working and use of Zenor Diode.
	3	
	4	
	5	
4	1 22/02/24	Explain principle of working and use of LED, photo diode
	2 27/02/24	Explain Rectifier & its use. Principle of working of
	3	Half wave rectifier with their merits and demerits.
	4	
	5	
5	1 29/02/24	Explain principle of center tapped and bridge type of
	2	Full wave Rectifier with their merits and demerits.
	3 07/03/24	Explain function of filter and classification of simple
	4	Filter circuit (capacitor, choke input and π)
	5	
6	1 12/03/24	Explain working of D.C power System (unregulated)
	2 14/03/24	Explain Transistor, Different type of Transistor configuration.
	3	
	4	
	5	
7	1 19/03/24	State o/p & i/p current gain relationship in CE, CB and CC
	2	Configuration
	3 21/03/24	Explain Need of biasing. Explain Self biasing.
	4	
	5	
8	1 02/04/24	Explain feedback resistor and potential divider biasing
	2 04/04/24	Explain Amplifier concept. Working principles of
	3	single phase CE amplifier
	4	
	5	

WEEK	CLASS/DAY	THEROY/ PRACTICAL TOPIC
9	1 09/04/24	Explain Electronic Oscillator and its classification.
	2	Working of Basic Oscillator.
	3 16/04/24	Revision
	4	
	5	
10	1 18/04/24	Explain basic Communication System. concept
	2	of modulation and Demodulation.
	3 23/04/24	Explain different type of modulation (AM, FM & PM)
	4	
	5	
11	1 25/04/24	Explain concept of Transducer and Sensor with
	2	them differences.
	3 30/04/24	Explain working principle of photo emissive,
	4	Photoconductive V, Photovolatic transducer and its application
	5	
12	1 02/05/24	Explain multimeter and its application. Differentiate
	2	Analog and Digital multimeter.
	3 07/05/24	Explain working principle of multimeter with
	4	basic block diagram.
	5	
13	1 09/05/24	Explain CRO, working principle of CRO
	2	with simple block diagram.
	3 14/05/24	Question Discussion
	4	Question Discussion.
	5	
14	1	
	2	
	3	
	4	
	5	
15	1	
	2	
	3	
	4	
	5	
16	1	
	2	
	3	
	4	
	5	

Sagar Sahu
SIGN OF FACULTY   SIGN OF HOD   SING OF A/C   SIGN OF PRINCIPAL
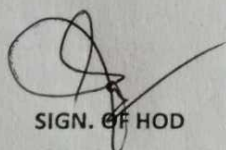
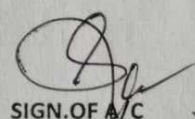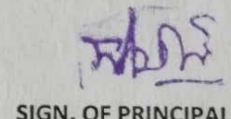# KALAM INSTITUTE OF TECHNOLOGY, BERHAMPUR
LESSON PLAN

DISCIPLINE: MATH AND SCIENCE
SEMESTER: 2nd
NAME OF THE TEACHING FACULTY: RAMACHANDRA PRADHAN

SUBJECT: Engineering Mechanics (TH4)
NO. OF CLASSES ALLOTED PER WEEK: 05
SEMESTER FROM DATE: 29-01-24 **TO DATE:** 14-05-24
BRANCH- Electrical Engineering **SEC-** D
NO. OF WEEKS: 16

WEEKS	CLASS DAYS	DATE	UNIT	THEORY	REMARK
1st	1st	29-01-24	1	Definition of mechanics, Statics, Dynamics.	
	2nd	31-01-24	1	Definition of mechanics, Statics, Dynamics.	
	3rd	01-02-24	1	Rigid Bodies, Force system, classification.	
	4th	02-02-24	1	Rigid Bodies, Force system, classification.	
	5th	03-02-24	1	Characteristics & effect of force.	
2nd	1st	05-02-24	1	Principle of Transmissibility & Superposition.	
	2nd	07-02-24	1	Action & Reaction forces & concept of FBD	
	3rd	08-02-24	1	Action & Reaction forces & concept of FBD	
	4th	09-02-24	1	Resolution of a force, Method of Resolution.	
	5th	10-02-24	1	Types of component forces, Composition of force.	
3rd	1st	12-02-24	1	Resultant force, Method of Composition of force.	
	2nd	15-02-24	1	Analytical Method.	
	3rd	16-02-24	1	Graphical Method.	
	4th	17-02-24	1	Moment of force, Geometrical Meaning.	
	5th				
4th	1st	19-02-24	1	Measurement & classification of moments	
	2nd	21-02-24	1	Measurement & classification of Moments	
	3rd	22-02-24	1	Law of Moments, Varignon's Theorem.	
	4th	23-02-24	1	Couple, Measurement of couple, Properties of couple	
	5th	24-02-24	1	couple, Measurement of couple, properties of couple.	
5th	1st	26-02-24	1	Problem solving.	
	2nd	28-02-24	1	Problem solving.	
	3rd	29-02-24	2	Equilibrium, condition of Equilibrium.	
	4th	01-03-24	2	Analytical & Graphical Conditions of equilibrium	
	5th	02-03-24	2	Analytical & Graphical Conditions of equilibrium.	
6th	1st	04-03-24	2	Free body Diagram.	
	2nd	06-03-24	2	Lami's Theorem (statement	
	3rd	07-03-24	2	Lami's Theorem (statement.	
	4th	09-03-24	2	Description of Lami's Theorem.	
	5th				
7th	1st	11-03-24	2	Application for solving various Engineering problems.	
	2nd	13-03-24	2	Application for solving various Engineering problem.	
	3rd	14-03-24	2	Problem solving.	
	4th	15-03-24	2	Problem solving	
	5th	16-03-24	3	Friction, Frictional forces, Limiting frictional forces	
8th	1st	18-03-24	3	Coefficient of friction, Angle of friction	
	2nd	20-03-24	3	Coefficient of friction, Angle of friction.	
	3rd	21-03-24	3	Angle of Repose, Laws of Friction	
	4th	22-03-24	3	Laws of friction, Advantages of friction.	
	5th	23-03-24	3	Disadvantages of friction, Equilibrium of bodies on level plane	

	1st	27-03-24	3	Equilibrium of bodies on level plane.
	2nd	28-03-24	3	Force applied on horizontal & inclined (Up&Down)
9th	3rd	30-03-24	2	Ladder Friction.
	4th			
	5th			
	1st	03-04-24	3	Wedge Friction
	2nd	04-04-24	3	problem Sowing.
10th	3rd	05-04-24	4	Centroid, Moment of an area about an axis.
	4th	06-04-24	4	Centroid of geometrical figures.
	5th			
	1st	08-04-24	4	Centroid of Composite figures.
	2nd	10-04-24	4	problem Solving.
11th	3rd	12-04-24	4	Moment of Inertia, Parallel axis & Perpendicular axis theorem.
	4th	13-04-24	4	M.I of Plane Lamina
	5th			
	1st	15-04-24	4	M.I of Different engineering Sections.
	2nd	18-04-24	4	problem Solving
12th	3rd	19-04-24	4	problem Solving
	4th	20-04-24	5	Simple Machine, Velocity ratio.
	5th			
	1st	22-04-24	5	Simple & Compound Lifting Machine. Define M.A & V.R.
	2nd	24-04-24	5	Law of Machine, Reversibility of Machine Self Locking M/C.
13th	3rd	25-04-24	5	Simple axle & Wheel.
	4th	26-04-24	5	Single purchase Crab Winch & Double, Worm & Worm Wheel.
	5th	27-04-24	5	Screw Jack
	1st	29-04-24	5	Types of Hoisting Machine like derrick, etc.
	2nd	01-05-24	5	Use and working principle of Hoisting Machine.
14th	3rd	02-05-24	5	Use and working principle of Hoisting Machine
	4th	03-05-24	6	Kinematics & Kinetics, Principles of Dynamics.
	5th	04-05-24	6	Newton's Laws of Motion, Motion of particle acted.
	1st	06-05-24	6	Equations of Motion, De-Aleybert's principle.
	2nd	08-05-24	6	Equations of motion, De-Aleybert's principle
15th	3rd	09-05-24	6	work, power, Energy & It's Engineering Application.
	4th	10-05-24	6	Kinetic & potential energy its application.
	5th	11-05-24	6	Momentum & impulse, Conservation of energy & linear Momentum.
	1st	13-05-24	6	Collision of elastic bodies, and coefficient of Restitution.
	2nd			
16th.	3rd			
	4th			
	5th			

SIGN. OF FACULTY   SIGN. OF HOD   SIGN. OF A/C   SIGN. OF PRINCIPAL
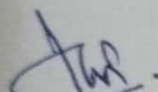
(B)

(Sec-A)

KALAM INSTITUTE OF TECHNOLOGY(P),BERHAMPUR

LESSON PLAN

DISCIPLINE:MATH AND SCIENCE	SEMESTER:2ND			NAME OF THE TEACHING FACULTY: Er. PRABHAT KUMAR PANDA (Lect. In B.ETC)		
SUBJECT: B.ETC. TH4(b)	NO. OF DAY WEEK CLASS ALLOTED:02			SEMESTER FROM DATE: 29-01-2024 TO DATE: 14-05-2024 NO. OF WEEKS:15		
WEEKS	CLASS DAYS	DATE	UNIT	THEORY	REMARK
First	1st	81-01-24	1	**ELECTRONIC DEVICES** Basic Concept of Electronics and its application.	
	2nd	03-02-24	1	Basic Concept of Electron Emission & its types	
Second	1st	07-02-24	1	Classification of material according to electrical conductivity (Conductor,Semiconductor & Insulator) with respect to energy band diagram only.	
	2nd	10-02-24	1	Difference between Intrinsic & Extrinsic Semiconductor, vacuum tube & semiconductor	
Third	1st	17-02-24	1	Principle of working and use of PN junction diode	
	2nd	21-02-24	1	Principle of working and use of Zener diode and Light Emitting Diode (LED)	
Fourth	1st	24-2-24	1	Integrated circuits (I.C) & its advantages.	
	2nd	28.2.24	2	**ELECTRONIC CIRCUITS** Rectifier & its uses,Principles of working of different types of Rectifiers with their merits and demerits	
Fifth	1st	2.3.24	2	Functions of filters and classification of simple Filter circuit (Capacitor, choke inputand π)	
	2nd	6.3.24	2	Working of D.C power supply system (unregulated)Transistor, Different types of Transistor Configuration	
Sixth	1st	9.3.24	2	Need of biasing and explain different types of biasing with circuit diagram.(only CE configuration)	
	2nd	13.3.24	2	Amplifiers(concept) , working principles of single phase CE amplifie	
Seventh	1st	16.3.24	2	Electronic Oscillator and its classification	
	2nd	20.3.24	2	Working of Basic Oscillator with different elements through simple Block Diagram	
Eighth	1st	23.3.24	2	Working of Basic Oscillator with different elements through simple Block Diagram	
	2nd	27.3.24	3	**COMMUNICATION SYSTEM** Basic communication system	
Ninth	1st	30.3.24	3	Concept of Modulation and Demodulation, Difference between them	
	2nd	3.4.24	3	Different types of Modulation (AM, FM & PM) based on signal, carrier wave and modulated wave	
Tenth	1st	6.4.24	4	**TRANSDUCERS AND MEASURING INSTRUMENTS** Concept of Transducer and sensor with their differences.	
	2nd	10.4.24	4	Different type of Transducers & concept of active and passive transducer	

Eleventh	1st	13.4.24	4	Working principle of photo emissive, photoconductive and its application
	2nd	20.4.24	4	Working principle of photovoltaic transducer and its application
Twelfth	1st	24.4.24	4	Multimeter and its applications
	2nd	27.4.24	4	Analog and Digital Multimeter and their differences
Thirteenth	1st	1.5.24	4	Multimeter and its applications
	2nd	4.5.24	4	Analog and Digital Multimeter and their differences
Fourteenth	1st	8.5.24	4	Working principle of Multimeter with Basic Block diagram
	2nd	11.5.24	4	CRO, working principle of CRO with simple Block diagram
Fifteenth	1st			
	2nd			

SIGN. OF
FACULTY

SIGN. OF
HOD

SIGN. OF A/C

SIGN. OF PRINCIPAL

(B)

KALAM INSTITUTE OF TECHNOLOGY(P), BERHAMPUR
LESSON PLAN

DISCIPLINE:MATH AND SCIENCE	SEMESTER:2ND	NAME OF THE FACULTY: G. Puspanjali		
SUBJECT:ENGG. MATHEMATICS-II	NO. OF DAY WEEK CLASS ALLOTED:	SEMESTER FROM DATE: 29/01/2024 TO DATE: 14/05/2024		
		NO. OF WEEKS: 15		

WEEK	CLASS	DATE	THEORY	REMARK
1st	1st	29/01/24	VECTOR	Puspa
	2nd	30/01/24	TYPES AND REPRESENTATION OF VECTOR	Puspa
	3rd	31/01/24	MAGNITUDE AND DIRECTION OF VECTOR	Puspa
	4th	02/02/24	ADDITION OF VECTOR	Puspa
	5th	03/02/24	SUBTRACTION OF VECTOR	Puspa
2nd	1st	05/02/24	EXERCISE	Puspa
	2nd	06/02/24	POSITION VECTOR	Puspa
	3rd	07/02/24	SCALAR PRODUCT OF TWO VECTORS	Puspa
	4th	09/02/24	GEOMETRICAL MEANING OF DOT PRODUCT	Puspa
	5th	10/02/24	ANGLE BETWEEN TWO VECTORS	Puspa
3rd	1st	12/02/24	EXERCISE	Puspa
	2nd	13/02/24	SCALAR AND VECTOR PROJECTION	Puspa
	3rd	13/02/24	EXAMPLES	Puspa
	4th	16/02/24	VECTOR PRODUCT	Puspa
	5th	17/02/24	EXAMPLES	Puspa
4th	1st	19/02/24	FUNCTIONS	Puspa
	2nd	20/02/24	TYPES OF FUNCTIONS	Puspa
	3rd	21/02/24	EXISTENCE OF LIMIT	Puspa
	4th	23/02/24	EXISTENCE OF LIMIT	Puspa
	5th	24/02/24	EXERCISE	Puspa
5th	1st	26/02/24	FACTORISATION METHOD	Puspa
	2nd	27/02/24	EXAMPLES	Puspa
	3rd	28/02/24	EVALUATION OF LIMIT	Puspa
	4th	01/03/24	SUBSTITUTION METHOD	Puspa
	5th	02/03/24	EXERCISE	Puspa
6th	1st	04/03/24	CONTINUITY AND DISCONTINUITY OF A FUNCTION	Puspa
	2nd	04/03/24	EXAMPLES	Puspa
	3rd	06/03/24	EXERCISE	Puspa
	4th	07/03/24	DERIVATIVES	Puspa
	5th	07/03/24	EXAMPLES	Puspa
7th	1st	11/03/24	CHAIN RULE	Puspa
	2nd	12/03/24	EXAMPLES	Puspa
	3rd	13/03/24	PARAMETRIC FUNCTION	Puspa
	4th	15/03/24	EXAMPLES	Puspa
	5th	16/03/24	IMPLICIT FUNCTION	Puspa
8th	1st	18/03/24	EXAMPLES	Puspa
	2nd	19/03/24	LOGARITHMIC FUNCTION	Puspa
	3rd	20/03/24	EXAMPLES	Puspa
	4th	22/03/24	DERIVATION W.R.T ANOTHER FUNCTION	Puspa
	5th	23/03/24	EXAMPLES	Puspa
9th	1st	27/03/24	EXERCISE	Puspa
	2nd	28/03/24	SUCCESSIVE DIFFERENTIATION	Puspa
	3rd	02/04/24	EXAMPLES	Puspa
	4th	03/04/24	PARTIAL DIFFERENTIATION	Puspa
	5th	05/04/24	EXAMPLES	Puspa

10th	1st	06/04/24	EXERCISE	Srupa
	2nd	08/04/24	INTEGRATION	Srupa
	3rd	09/04/24	FORMULA BASED PROBLEMS	Srupa
	4th	10/04/24	EXAMPLES	Srupa
	5th	12/04/24	INTEGRATION BY SUBSTITUTION	Srupa
11th	1st	13/04/24	EXAMPLES	Srupa
	2nd	15/04/24	INTEGRATION BY PARTS	Srupa
	3rd	16/04/24	EXAMPLES	Srupa
	4th	19/04/24	INTEGRATION OF TRIGONOMETRIC FUNCTIONS	Srupa
	5th	20/04/24	INTEGRATION BY TRIGONOMETRIC SUBSTITUTION	Srupa
12th	1st	22/04/24	EXAMPLES	Srupa
	2nd	23/04/24	DEFINITE INTEGRAL	Srupa
	3rd	24/04/24	EXAMPLES	Srupa
	4th	26/04/24	AREA ENCLOSED BY A CURVE AND X-AXIS	Srupa
	5th	27/04/24	AREA OF A CIRCLE WITH CENTRE AT ORIGIN	Srupa
13th	1st	29/04/24	EXERCISE	Srupa
	2nd	30/04/24	DIFFERENTIAL EQUATION	Srupa
	3rd	01/05/24	ORDER AND DEGREE OF DIFFERENTIAL EQUATION	Srupa
	4th	03/05/24	ORDINARY DIFFERENTIAL EQUATION	Srupa
	5th	04/05/24	EXAMPLES	Srupa
14th	1st	05/05/24	PARTIAL DIFFERENTIAL EQUATION	Srupa
	2nd	07/05/24	EXAMPLES	Srupa
	3rd	08/05/24	LINEAR DIFFERENTIAL EQUATION	Srupa
	4th	10/05/24	EXAMPLES	Srupa
	5th	11/05/24	NON-LINEAR DIFFERENTIAL EQUATION	Srupa
15th	1st	11/05/24	EXAMPLES	Srupa
	2nd	13/05/24	EXERCISE	Srupa
	3rd	13/05/24	PREVIOUS YEAR QUESTIONS SOLVED	Srupa
	4th	14/05/24	PREVIOUS YEAR QUESTIONS SOLVED	Srupa
	5th	14/05/24	REVISION	Srupa

Rupanjali

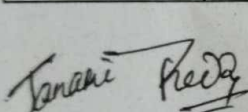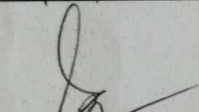SIGN. OF FACULTY   SIGN. OF HOD   SIGN. OF A/C   SIGN. OF PRINCIPAL

KALAM INSTITUTE OF TECHNOLOGY(P),BERHAMPUR
LESSON PLAN
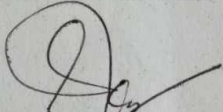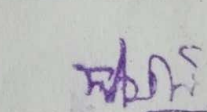
DISCIPLINE:MATH AND SCIENCE	SEMESTER:2ND		NAME OF THE FACULTY: Ms. Janaki Reddy		
SUBJECT:ENGG. MATHEMATICS-II	NO. OF DAY WEEK CLASS ALLOTED: 5		SEMESTER FROM DATE: 29/01/24 TO DATE: 14/05/24		
			NO. OF WEEKS: 15		

WEEK	CLASS	DATE	THEORY	REMARK
1st	1st	29/01/24	VECTOR	
	2nd	30/01/24	TYPES AND REPRESENTATION OF VECTOR	
	3rd	31/01/24	MAGNITUDE AND DIRECTION OF VECTOR	
	4th	01/02/24	ADDITION OF VECTOR	
	5th	03/02/24	SUBTRACTION OF VECTOR	
2nd	1st	05/02/24	EXERCISE	
	2nd	06/02/24	POSITION VECTOR	
	3rd	07/02/24	SCALAR PRODUCT OF TWO VECTORS	
	4th	08/02/24	GEOMETRICAL MEANING OF DOT PRODUCT	
	5th	10/02/24	ANGLE BETWEEN TWO VECTORS	
3rd	1st	12/02/24	EXERCISE	
	2nd	13/02/24	SCALAR AND VECTOR PROJECTION	
	3rd	13/02/24	EXAMPLES	
	4th	15/02/24	VECTOR PRODUCT	
	5th	17/02/24	EXAMPLES	
4th	1st	19/02/24	FUNCTIONS	
	2nd	20/02/24	TYPES OF FUNCTIONS	
	3rd	21/02/24	EXISTENCE OF LIMIT	
	4th	22/02/24	EXISTENCE OF LIMIT	
	5th	24/02/24	EXERCISE	
5th	1st	26/02/24	FACTORISATION METHOD	
	2nd	27/02/24	EXAMPLES	
	3rd	28/02/24	EVALUATION OF LIMIT	
	4th	29/02/24	SUBSTITUTION METHOD	
	5th	02/03/24	EXERCISE	
6th	1st	04/03/24	CONTINUITY AND DISCONTINUITY OF A FUNCTION	
	2nd	04/03/24	EXAMPLES	
	3rd	06/03/24	EXERCISE	
	4th	07/03/24	DERIVATIVES	
	5th	09/03/24	EXAMPLES	
7th	1st	11/03/24	CHAIN RULE	
	2nd	12/03/24	EXAMPLES	
	3rd	13/03/24	PARAMETRIC FUNCTION	
	4th	14/03/24	EXAMPLES	
	5th	16/03/24	IMPLICIT FUNCTION	
8th	1st	18/03/24	EXAMPLES	
	2nd	19/03/24	LOGARITHMIC FUNCTION	
	3rd	20/03/24	EXAMPLES	
	4th	21/03/24	DERIVATION W.R.T ANOTHER FUNCTION	
	5th	23/03/24	EXAMPLES	
9th	1st	27/03/24	EXERCISE	
	2nd	28/03/24	SUCCESSIVE DIFFERENTIATION	
	3rd	30/03/24	EXAMPLES	
	4th	02/04/24	PARTIAL DIFFERENTIATION	
	5th	03/04/24	EXAMPLES	

10th	1st	04/04/24	EXERCISE	
	2nd	06/04/24	INTEGRATION	
	3rd	08/04/24	FORMULA BASED PROBLEMS	
	4th	09/04/24	EXAMPLES	
	5th	10/04/24	INTEGRATION BY SUBSTITUTION	
11th	1st	13/04/24	EXAMPLES	
	2nd	15/04/24	INTEGRATION BY PARTS	
	3rd	16/04/24	EXAMPLES	
	4th	18/04/24	INTEGRATION OF TRIGONOMETRIC FUNCTIONS	
	5th	20/04/24	INTEGRATION BY TRIGONOMETRIC SUBSTITUTION	
12th	1st	22/04/24	EXAMPLES	
	2nd	23/04/24	DEFINITE INTEGRAL	
	3rd	24/04/24	EXAMPLES	
	4th	25/04/24	AREA ENCLOSED BY A CURVE AND X-AXIS	
	5th	27/04/24	AREA OF A CIRCLE WITH CENTRE AT ORIGIN	
13th	1st	01/05/24	EXERCISE	
	2nd	02/05/24	DIFFERENTIAL EQUATION	
	3rd	02/05/24	ORDER AND DEGREE OF DIFFERENTIAL EQUATION	
	4th	04/05/24	ORDINARY DIFFERENTIAL EQUATION	
	5th	04/05/24	EXAMPLES	
14th	1st	05/05/24	PARTIAL DIFFERENTIAL EQUATION	
	2nd	05/05/24	**EXAMPLES**	
	3rd	07/05/24	LINEAR DIFFERENTIAL EQUATION	
	4th	07/05/24	EXAMPLES	
	5th	08/05/24	NON-LINEAR DIFFERENTIAL EQUATION	
15th	1st	09/05/24	EXAMPLES	
	2nd	11/05/24	EXERCISE	
	3rd	13/05/24	PREVIOUS YEAR QUESTIONS SOLVED	
	4th	14/05/24	PREVIOUS YEAR QUESTIONS SOLVED	
	5th	14/05/24	REVISION	

SIGN. OF FACULTY   SIGN. OF HOD   SIGN.OF A/C   SIGN. OF PRINCIPAL