Best Practice II

SMART CAMPUS: Where Technology Meets Excellence

ICT Enabled Teaching Learning Activities

Objective: In order to ensure a quick and deep dive into present educational scenario and to upskill the students who have undergone through the pandemic era, the department has adopted technology based teaching methodologies, ensuring the engagement of the learner in teaching, learning and assessment activities. The online and digitally enhanced learning strategies were adopted during the end of the academic year 2019-20 and are successfully and effectively integrated into the classroom pedagogical practices to make the learning more engaging, active and constructive. To re wire the traditional teaching practices and to re think effective methods and to ensure maximum learner participation, department deployed suitable ways to transact curriculum for a learner community driven by the pandemic era.

Context: The COVID -19 pandemic has necessitated cutting edge technologies and learner based, technology assisted teaching, learning and evaluative methodologies to address the issues in the field of education in general and higher education in particular. To cater the diverse needs of students- a pandemic driven community- and to engage them in higher educational practices retaining the drive for learning was the difficult task during the outbreak of pandemic. The department was keen in assessing the scenario and the needs of the students and preparing strategies to address the issue through effective technology integration.

Practice:

- Convened department council meeting and decided the measures to integrate technology enhanced learning to address the covid driven community in 20-21
- Discussed and decided the digital platforms and tools to be used for teaching, learning and evaluation
- Faculty members participated the FDP organized by college IQAC on technology assisted learning in 20-21
- Decided to use Google meet for synchronic online teaching activities

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- Implemented google classroom for asynchronous teaching and learning activities
- Google forms were used for student survey, feedback and evaluation
- Different virtual platforms were also used for retaining the interest of students
- After the conversion into face-to-face learning from 4th October 2022, the flipped learning practices were continued for technology- based learning in order to supplement additional classes, additional materials, assignment submission, evaluation, student poll, student presentations, etc.
- Recorded sessions were given to help slow learners
- Audio lessons and podcasts were given to support any time anywhere learning.
- Class room WhatsApp groups were used to facilitate quick communication.

Evidence of success: the effective integration of technology-based learning strategies and flipped learning methods, students got the opportunity for remote learning in effective and engaging way. It helped in achieving learning outcomes of courses and the programme. The all-time availability of the teacher facilitators helped the learners to stay connected with the academic processes. The slow learners could use the recorded sessions for self-paced learning. Any time and any where learning were also facilitated through this flipped learning methods. Students could familiarise different tools for learning, Thus the whole practice helped in inculcating 21st century skills and future ready skills among the leaners as envisaged in NEP 2020.

Problem encountered: The lack of proper device to access classes was a major problem faced. More over the lack of internet connectivity was also a hindrance in achieving the goal completely. Institution ensured the g suit facility and connectivity to address some problems faced during the implementation.

Resources required: Internet connectivity with sufficient bandwidth, ICT tools, Smart Device for facilitating the activity.

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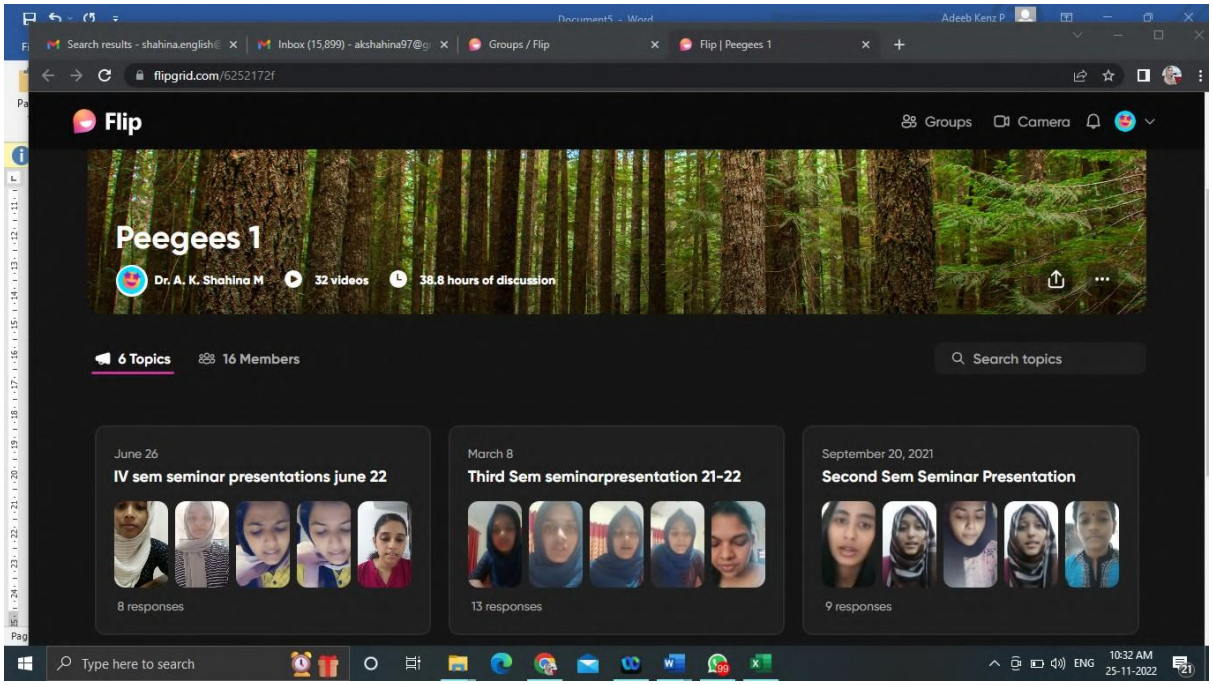
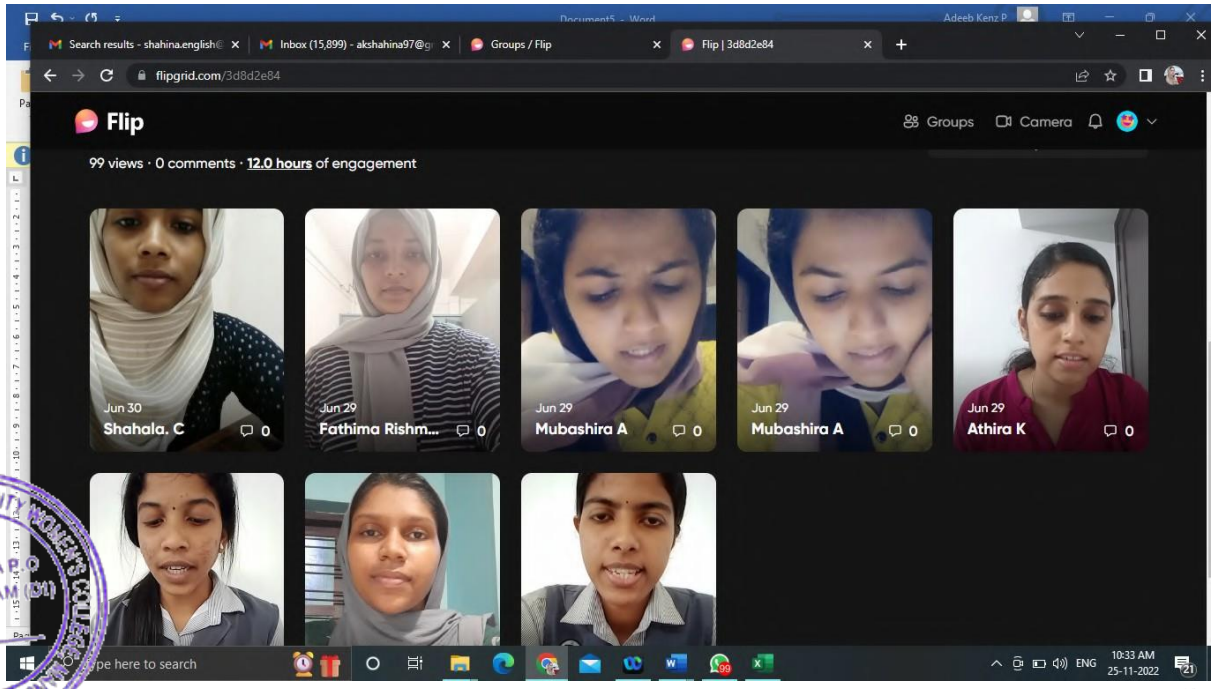
ICT Enabled Teaching Learning Practices:
PG & Research Department of English

Flip grid virtual classrooms (MA English) of Dr. Shahina Mol A K, HoD, English





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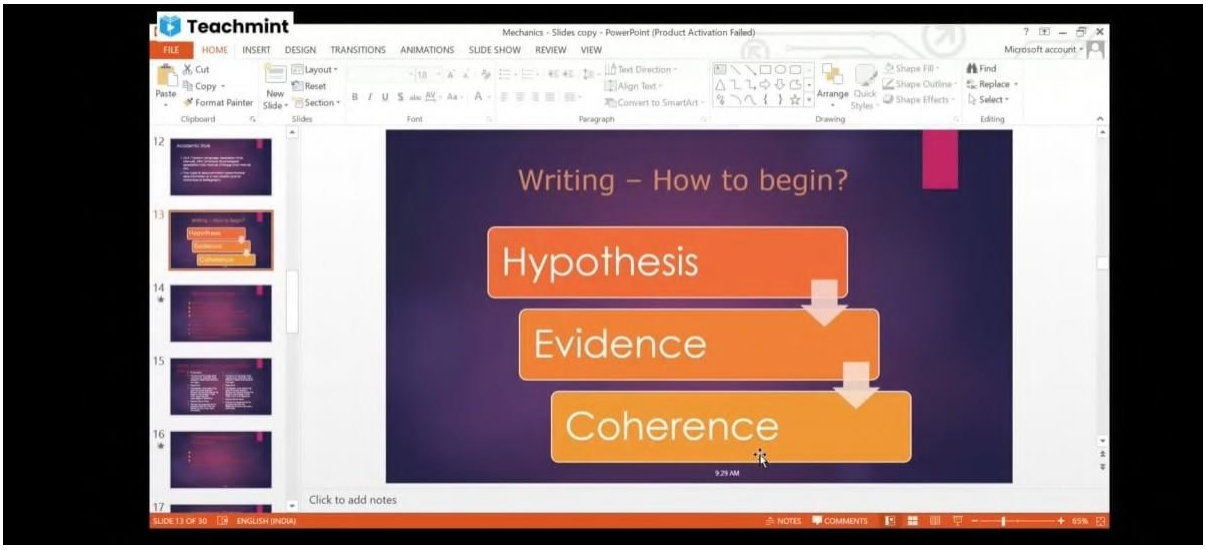
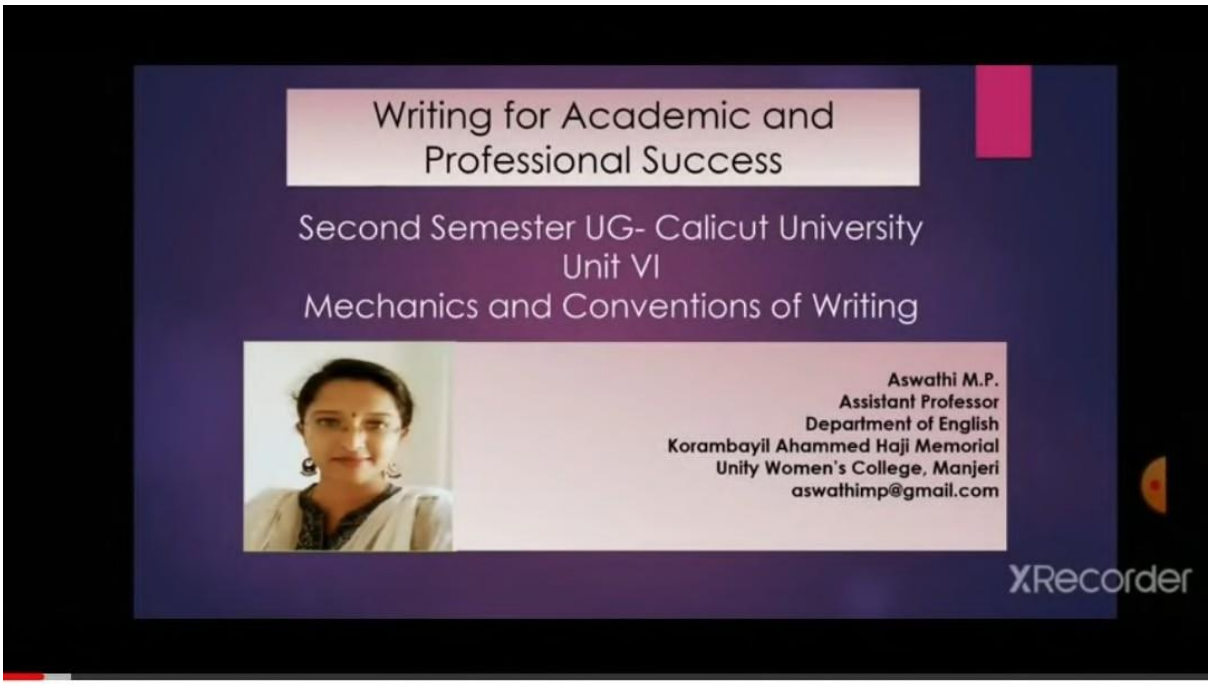
Teach mint classroom of Dr. Aswathi MP, Faculty of English





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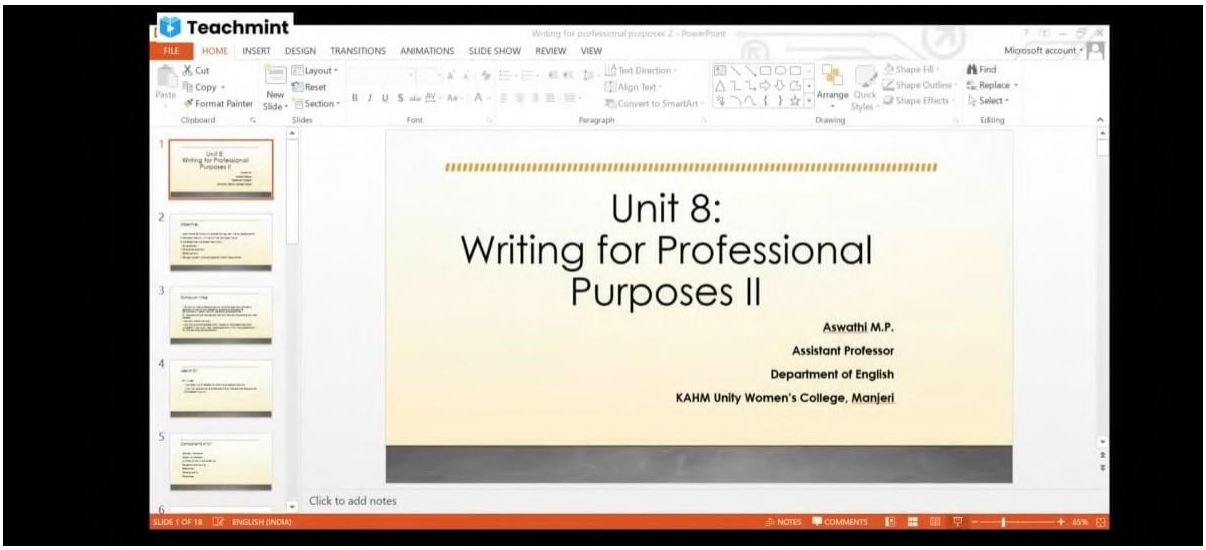

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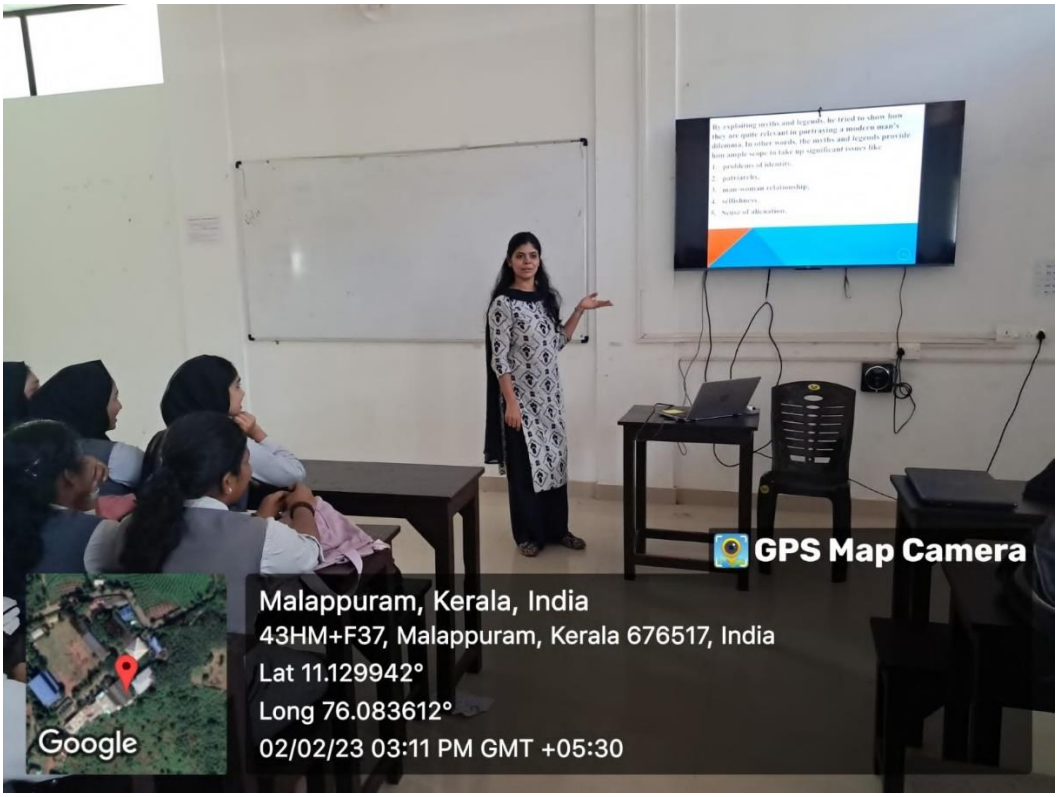
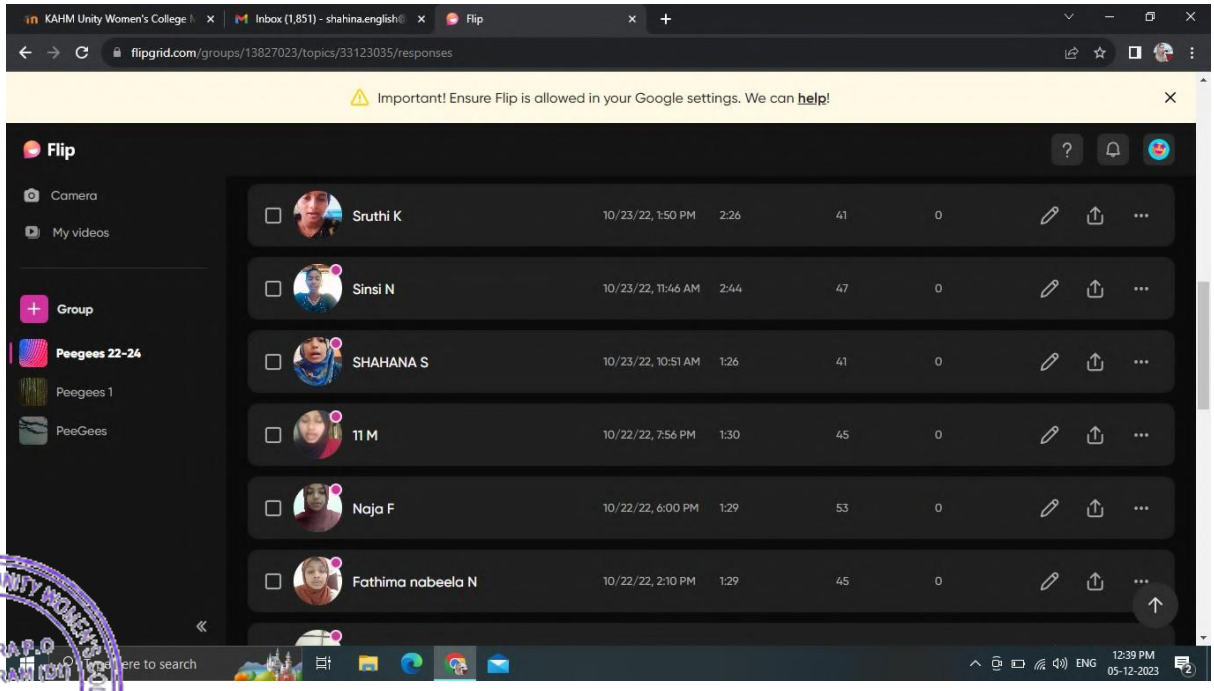
Ms. Sangeeta K, Faculty of English





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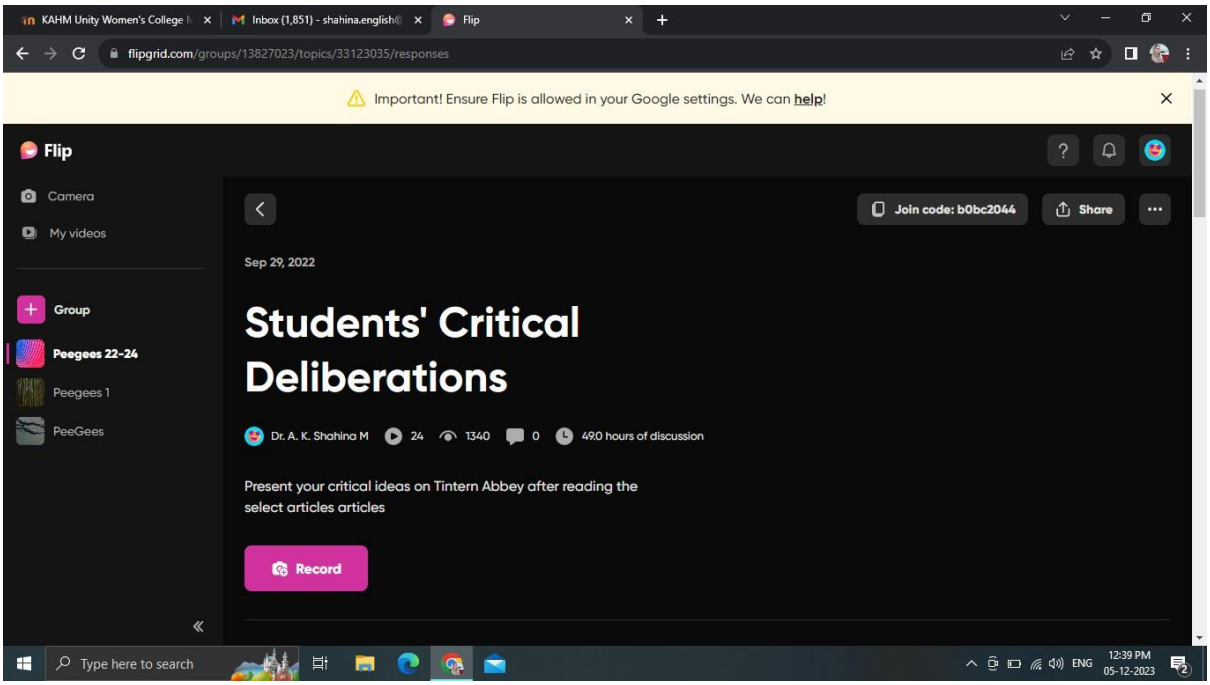
Flipgrid Classroom of Dr. Shahina Mol A. K, HoD OF English



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Dr. Poornima R, Faculty of English

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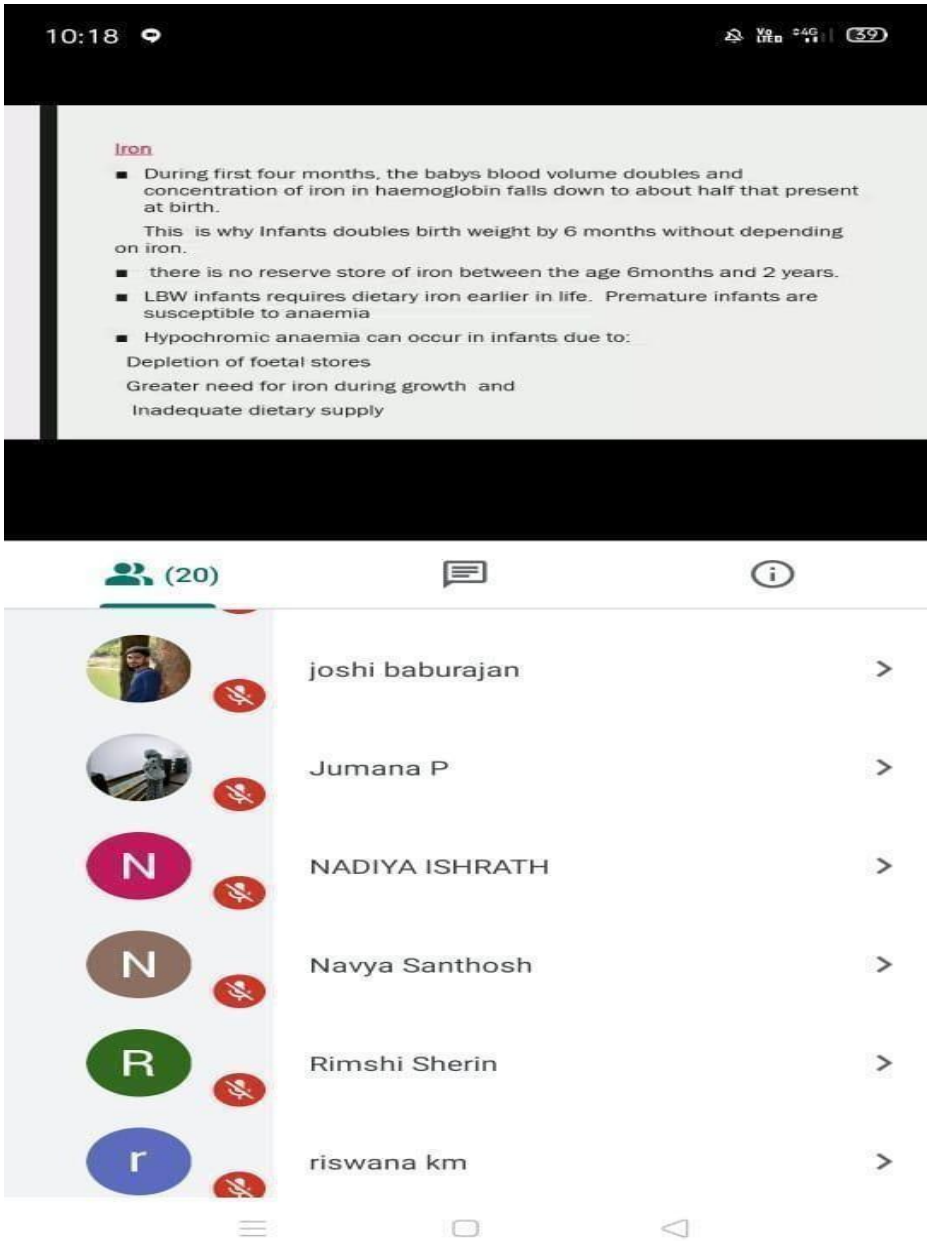

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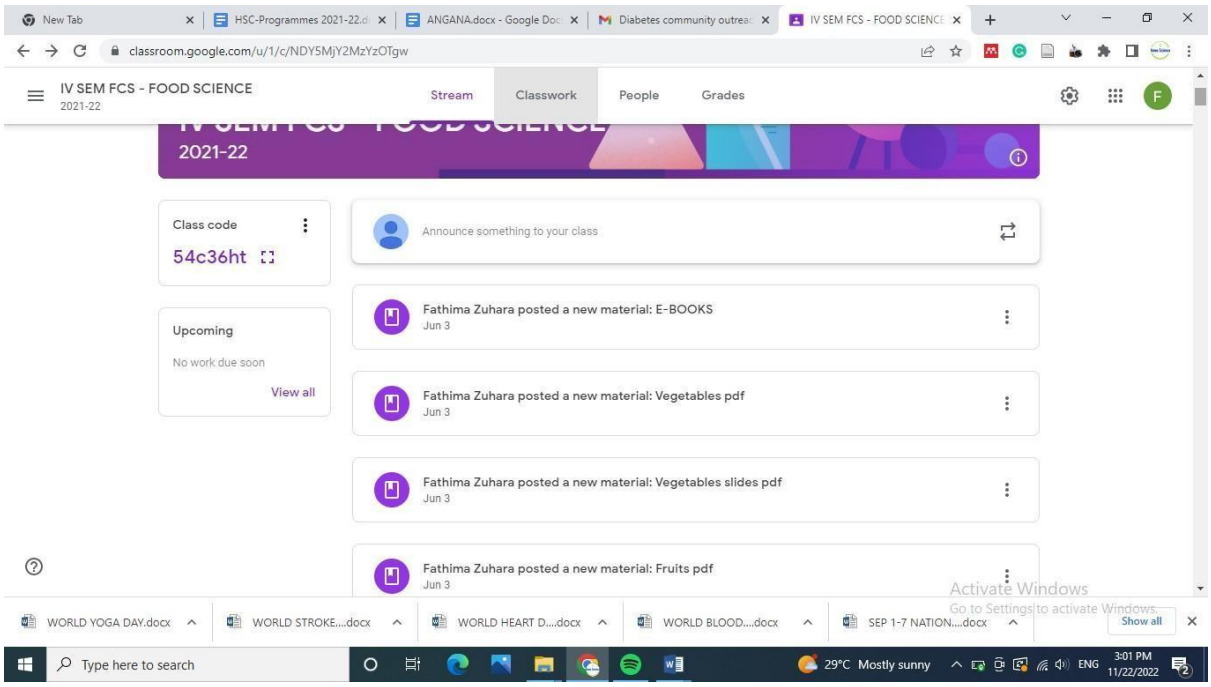

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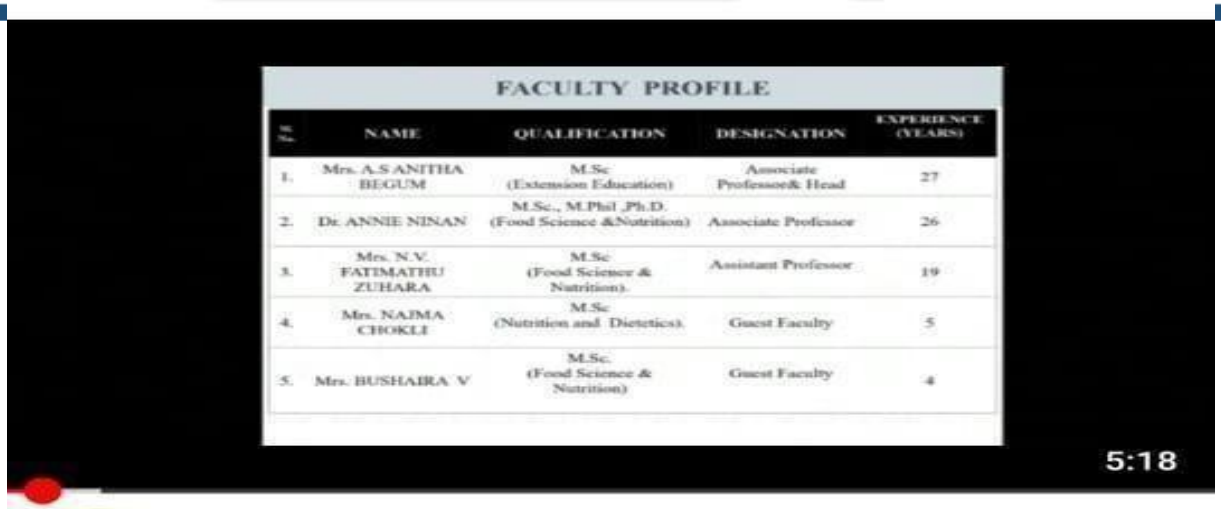

Sl. No.	NAME	QUALIFICATION	DESIGNATION	EXPERIENCE (YEARS)
1.	Mrs. A.S ANITHA BEGUM	M.Sc (Extension Education)	Associate Professor& Head	27
2.	Dr. ANNIE NINAN	M.Sc., M.Phil ,Ph.D. (Food Science &Nutrition)	Associate Professor	26
3.	Mrs. N.V. FATIMATHU ZUHARA	M.Sc (Food Science & Nutrition).	Assistant Professor	19
4.	Mrs. NAJMA CHOKLI	M.Sc (Nutrition and Dietetics).	Guest Faculty	5
5.	Mrs. BUSHAIRA V	M.Sc. (Food Science & Nutrition)	Guest Faculty	4

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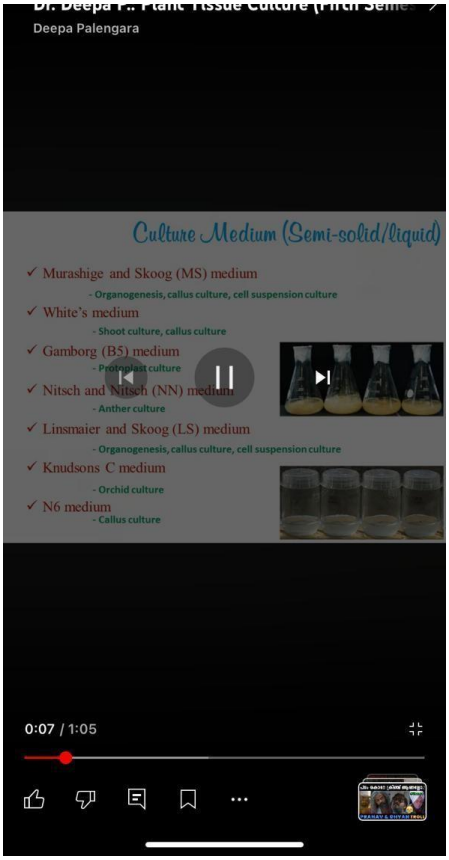

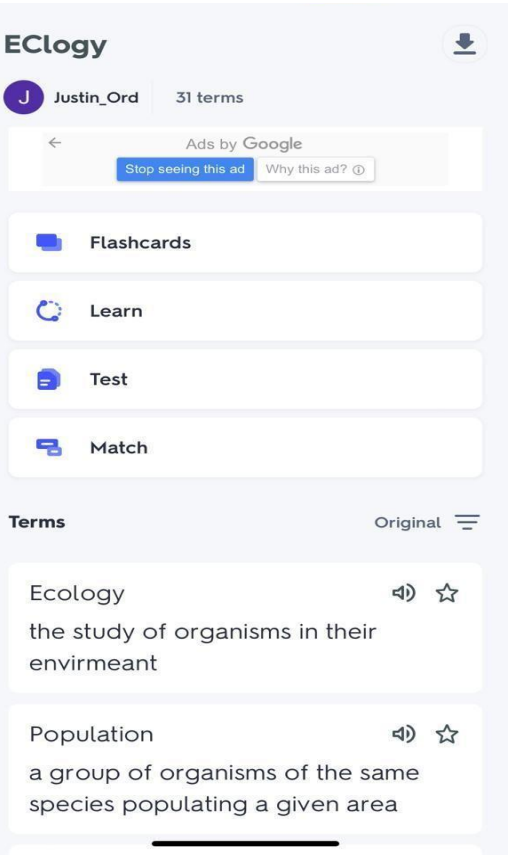

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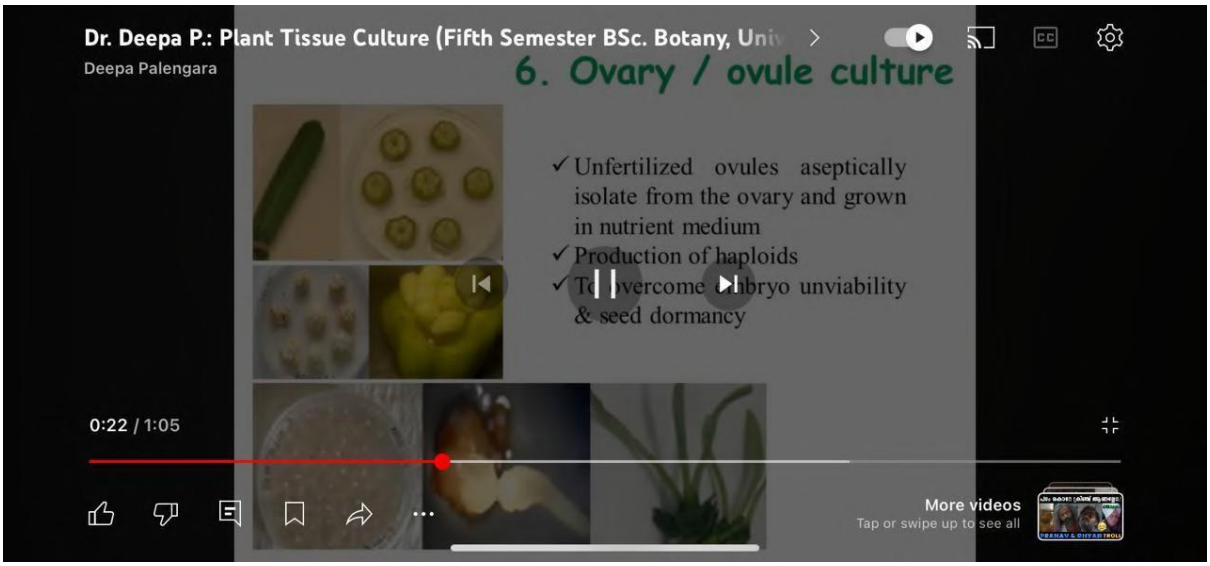
Platform used by Faculties for curriculum delivery

UNITY E-CONTENT DEVELOPMENT CENTRE



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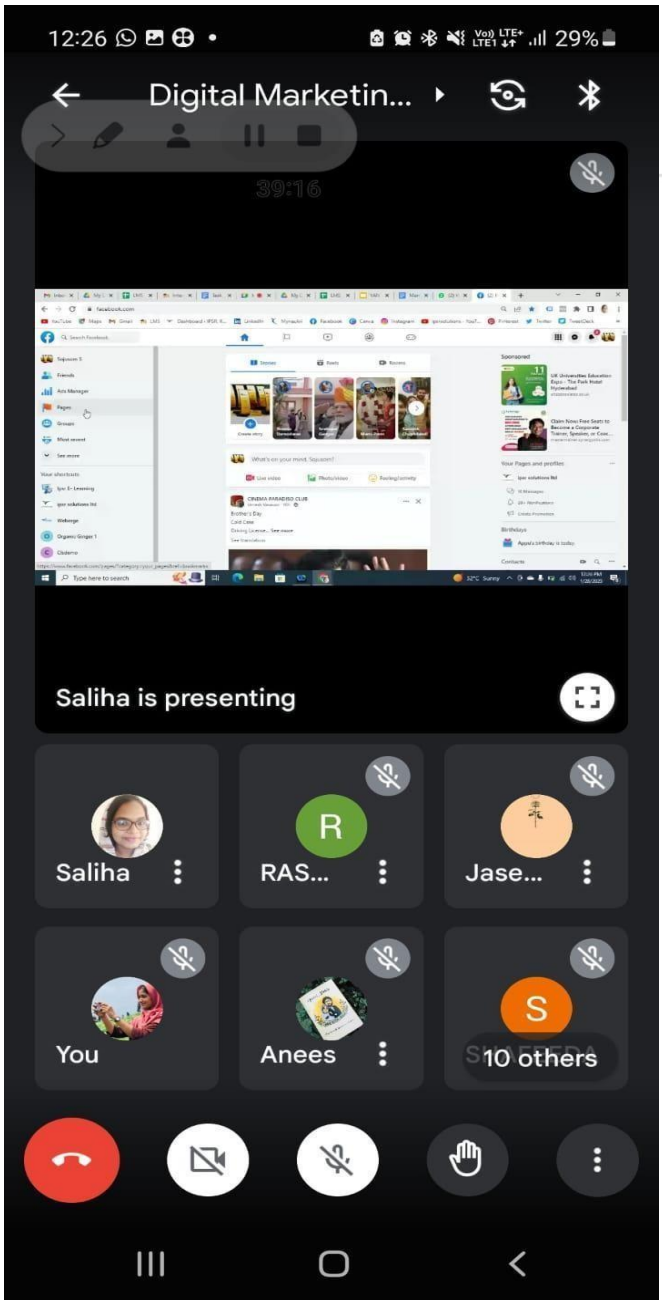
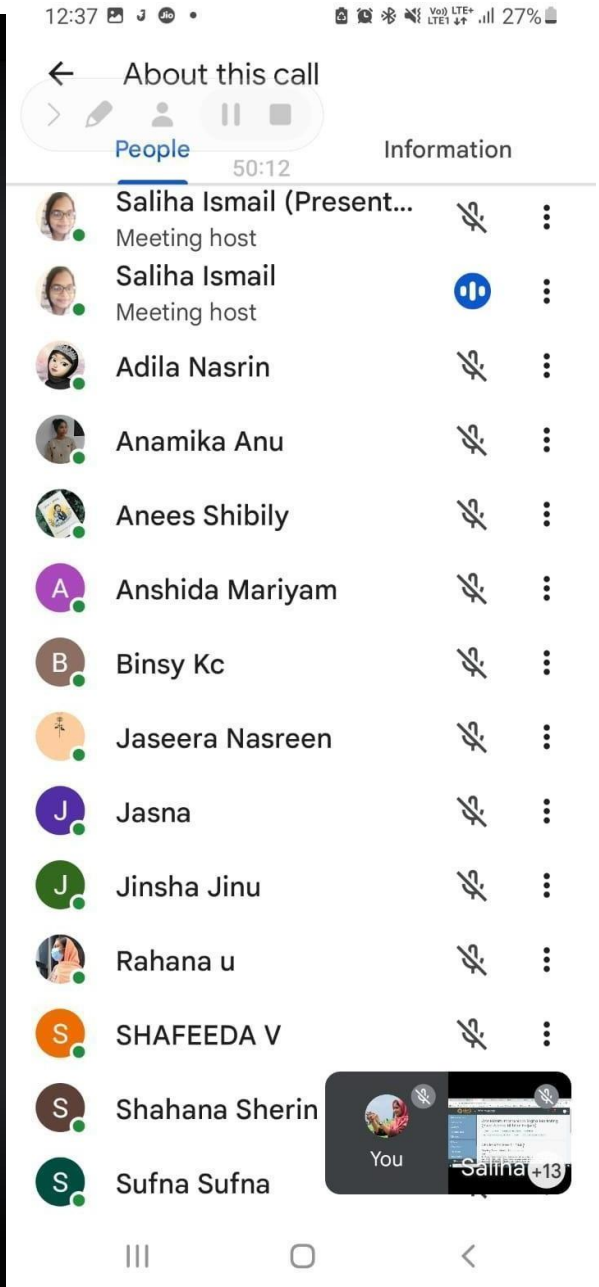
Google Meet for Online lectures and Presentations





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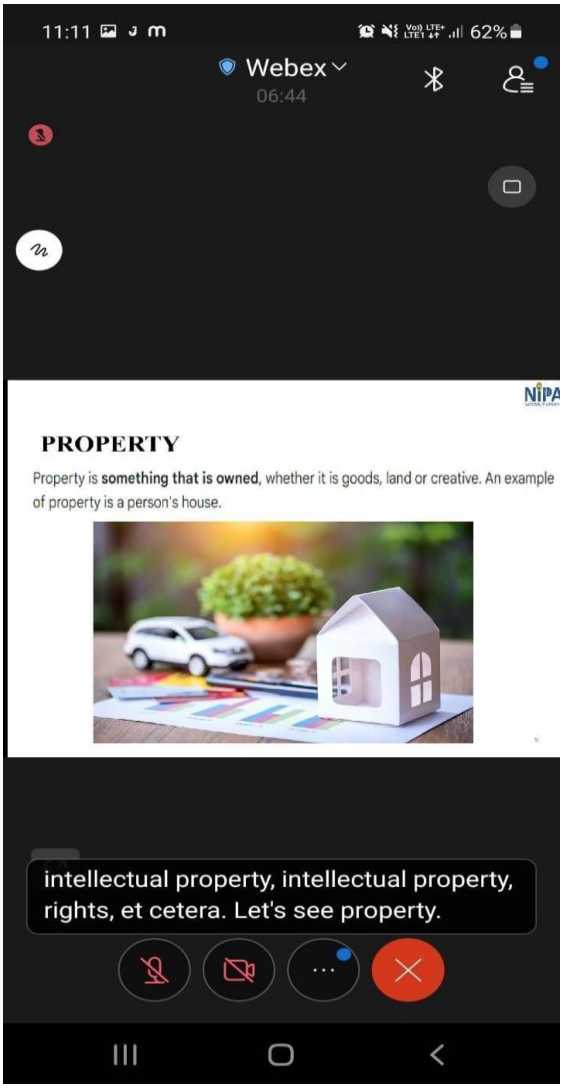
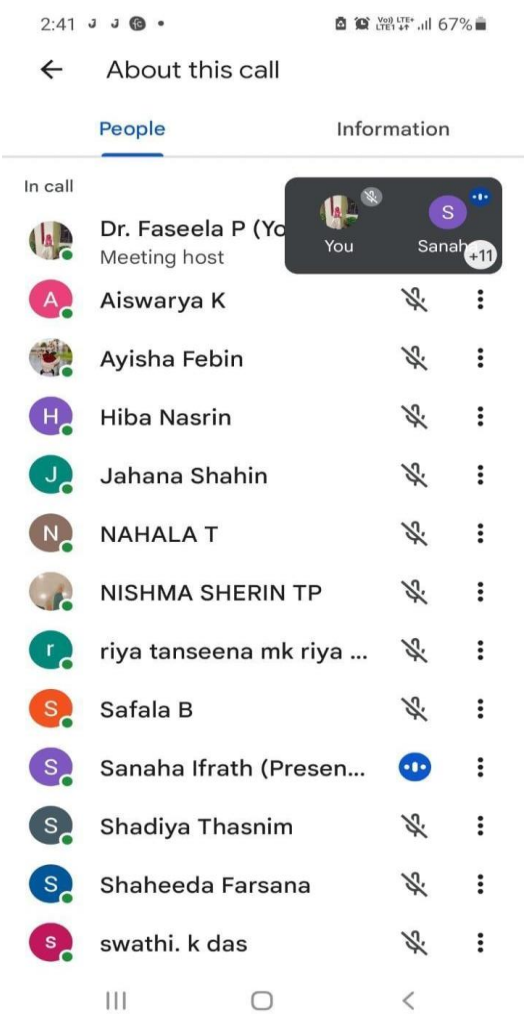
Webex Platform for Online Lectures and Presentations:





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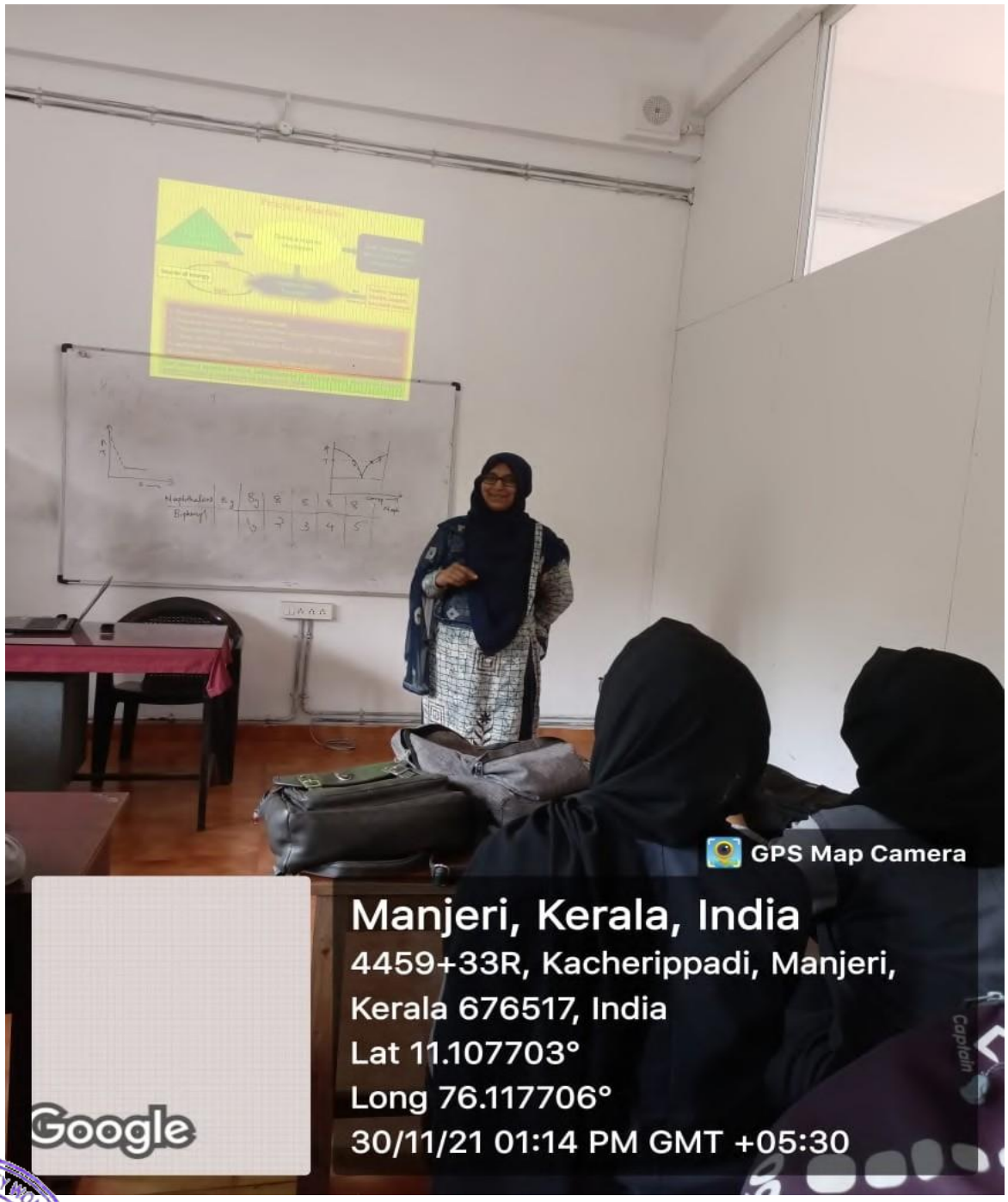

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Dr. Shamseera K O

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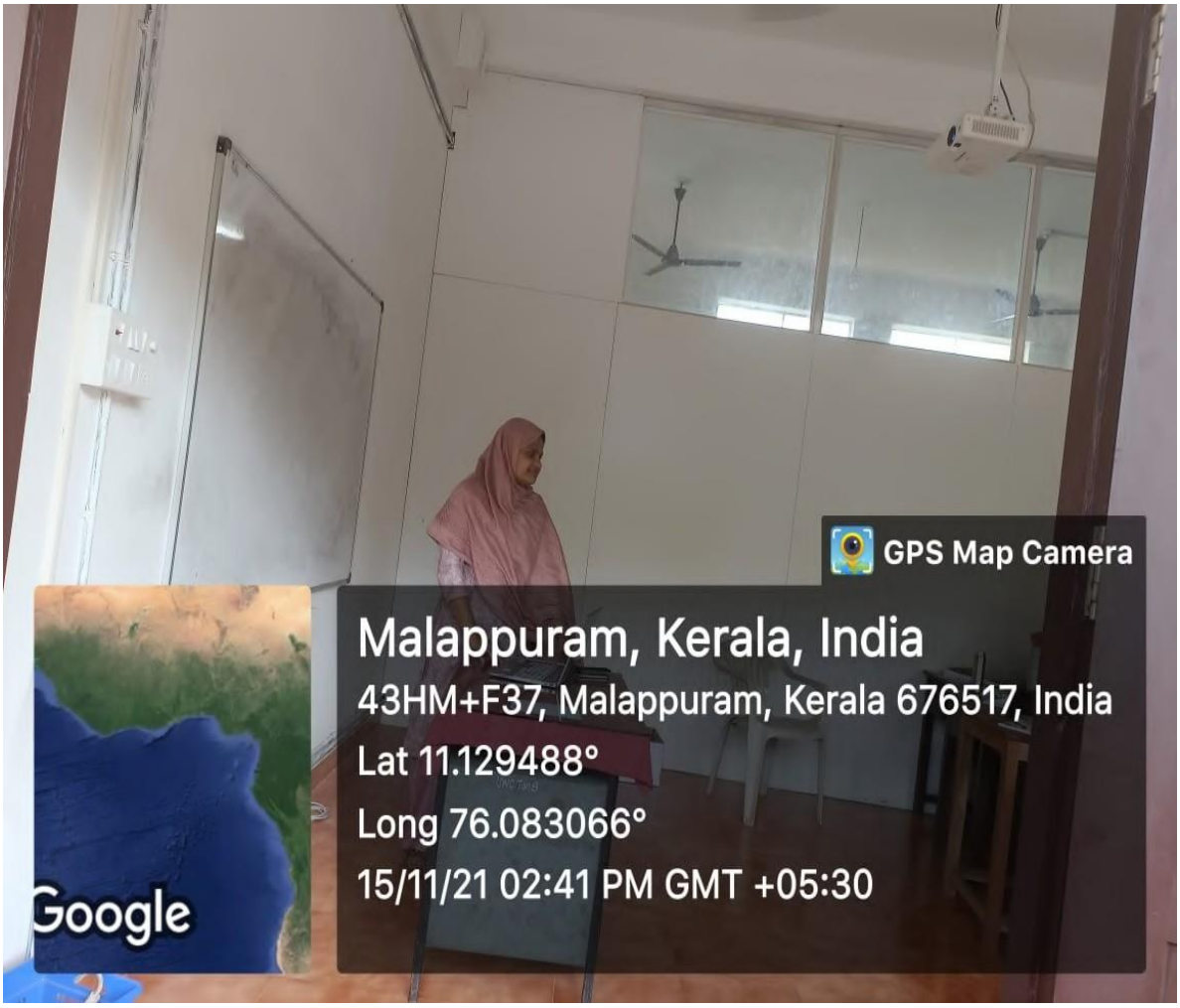
Ms. Najeera P C



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Ms. Greeshma P

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LIST OF E-CONTENT PREPARED BY FACULTY OF THE DEPARTMENT OF CHEMISTRY:

NAME OF THE FACULTY	LIST OF CONTENTS PREPARED	Repository
Dr. JYOTHI P.	CHEMICAL KINETICS INTRODUCTION	LMS
Dr. JYOTHI P.	RATE OF REACTION	LMS
Dr. JYOTHI P.	DETERMINATION OF REACTION RATE	LMS
Dr. JYOTHI P.	RATE LAW	LMS
Dr. JYOTHI P.	ORDER OF REACTION-0,1,2 &3	LMS
Dr. JYOTHI P.	SOLVED PROBLEMS	LMS
Dr. JYOTHI P.	KINETICS OF COMPLEX REACTIONS	LMS
Dr. JYOTHI P.	REVERSIBLE &PARALLEL	LMS
Dr. JYOTHI P.	CONSECUTIVE REACTIONS	LMS
Dr. JYOTHI P.	CHAIN REACTIONSTEADY STATE APPROXIMATION	LMS
Dr. JYOTHI P.	H-Br REACTION	LMS
Dr. JYOTHI P.	INFLUENCE OF TEMPERATURE ON REACTION RATE	LMS
Dr. JYOTHI P.	PROBLEMS ON ARRHENIUS EQUATION	LMS
Dr. JYOTHI P.	BIMOLECULAR REATION	LMS
Dr. JYOTHI P.	EFFECT OF STERRIC FACTOR IN THE RATE	LMS
Dr. JYOTHI P.	EYRING EQUATION	LMS
SUHADA K.M	TEST FOR AMMONIUM	LMS&GCR
SUHADA K.M	TEST FOR LEAD ION	LMS&GCR
SUHADA K.M	TEST FOR BISMUTH ION	LMS&GCR
SUHADA K.M	TEST FOR COPPER ION	LMS&GCR
SUHADA K.M	TEST FOR CADMIUM	LMS&GCR
SUHADA K.M	TEST FOR FERRIC	LMS&GCR
SUHADA K.M	TEST FOR ALUMINIUM	LMS&GCR
SUHADA K.M	TEST FOR COBALT	LMS&GCR
SUHADA K.M	TEST FOR NICKEL	LMS&GCR
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SUHADA K.M	TEST FOR ZINC	LMS&GCR
SUHADA K.M	TEST FOR BARIUM	LMS&GCR

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SUHADA K.M	TEST FOR STRONTIUM	LMS&GCR
SUHADA K.M	TEST FOR CALCIUM	LMS&GCR
SUHADA K.M	TEST FOR MAGNESIUM	LMS&GCR
SUHADA K.M	COORDINATION CHEMISTRY INTRODUCTION	LMS
SUHADA K.M	COORDINATION CHEMISTRY WERNER'S THEORY	LMS
SUHADA K.M	COORDINATION CHEMISTRY - NOMENCLATURE	LMS
SUHADA K.M	COORDINATION CHEMISTRY - ISOMERISM	LMS
SUHADA K.M	COORDINATION CHEMISTRY -VBT	LMS
SUHADA K.M	COORDINATION CHEMISTRY CFT	LMS
SUHADA K.M	COORDINATION CHEMISTRY MOT	LMS
SUHADA K.M	VOLUMETRIC ANALYSIS INTRODUCTION	LMS
SUHADA K.M	ESTIMATION OF NAOH	LMS
SUHADA K.M	ESTIMATION OF NAOH	LMS
SUHADA K.M	ESTIMATION OF HCL	LMS
SUHADA K.M	ERRORS	LMS
SUHADA K.M	COORDINATION CHEMISTRY-STABILITY 1	LMS
SUHADA K.M	COORDINATION CHEMISTRY SPECTRA	LMS
SUHADA K.M	COORDINATION CHEMISTRY MAGNETIC PROPERTIES	LMS
SUHADA K.M	COORDINATION CHEMISTRY REACTIONS	LMS
SUHADA K.M	SURFACE CHEMISTRY	LMS
SUHADA K.M	BASICS ORGANIC CHEMISTRY	LMS&GCR
SUHADA K.M	CATALYSIS	LMS
SUHADA K.M	INORGANIC POLYMERS	LMS
SUHADA K.M	NATURAL PRODUCT	LMS
SUHADA K.M	REACTION INTERMEDIATES	LMS
SUHADA K.M	SILICATES	LMS
SUHADA K.M	SILICONES	LMS
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SUHADA K.M	ORGANOMETALLIC REACTIONS	LMS&GCR
SUHADA K.M	ORGANOMETALLIC CATALYSIS	LMS&GCR
SUHADA K.M	HETEROGENEOUS CATALYSIS	LMS
SUHADA K.M	OXIDATION REACTIONS	LMS&GCR
SUHADA K.M	REDUCTION REACTIONS	LMS&GCR
SUHADA K.M	PROTECTING GROUPS IN ORGANICS	LMS&GCR
SUHADA K.M	RETRO SYNTHESES	LMS&GCR
SUHADA K.M	DISCONNECTION	LMS
SUHADA K.M	NATURAL PRODUCT CLASSIFICATION	LMS
SUHADA K.M	STRUCTURAL ELUCIDATION OF CHOLESTEROL	LMS

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SUHADA K.M	STRUCTURAL ELUCIDATION OF OESTRON, ANDROSTERONE AND TESTOSTERON	LMS
SUHADA K.M	CORTISONE AND CORTICOSTERONE	LMS
SUHADA K.M	ANTHOCYANIN	LMS
SUHADA K.M	CAROTENOIDS AND BETA CAROTENE	LMS
SUHADA K.M	INDIGO	LMS
SUHADA K.M	PHTHALOCYANINE DYES	LMS
SUHADA K.M	NON AQEOUS SOLVENTS	LMS
SUHADA K.M	ELECTRONIC SPECTRA OF COORDINATION COMPOUNDS	LMS
SUHADA K.M	CYANINE DYE	LMS
SUHADA K.M	ISOMERISM IN COORDINATION COMPLEXES	LMS
SUHADA K.M	PROSTAGLANDIN	GCR
SUHADA K.M	ANDROSTERONE	GCR
SUHADA K.M	ABIETIC ACID	GCR
SUHADA K.M	PINACOL COUPLING	GCR
SUHADA K.M	COLLOIDS	GCR
Dr. JAMSHEENA V	Types of isomerism - constitutional isomerism stereoisomerism	LMS&GCR
Dr. JAMSHEENA V	Stereoisomerism: Classification into conformational isomerism and configurational isomerism. Elements of symmetry of Molecules	LMS&GCR
Dr. JAMSHEENA V	Representation of organic molecules: Fischer, Flying wedge, Sawhorse and Newman projections. Inter conversion of different representations	LMS&GCR
Dr. JAMSHEENA V	Conformational Isomerism	LMS&GCR
Dr. JAMSHEENA V	Conformations of cyclohexane	LMS&GCR
Dr. JAMSHEENA V	Optical Isomerism:	LMS&GCR
Dr. JAMSHEENA V	Enantiomers, Diastereomers and Meso compounds. Optical isomerism in glyceraldehyde, lactic acid and tartaric acid.	LMS&GCR
Dr. JAMSHEENA V	Relative and absolute configuration - DL system, RS system of nomenclature -sequence rules. Erythro and threo representations	LMS&GCR
Dr. JAMSHEENA V	Racemic mixture – Resolution methods – Enantiomeric excess. Asymmetric synthesis (partial and absolute).	LMS&GCR

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Dr. JAMSHEENA V	*Geometrical Isomerism*: Definition, condition, geometrical isomerism in but-2-ene, fumaric & maleic acid. Cis-trans, syn-anti and E-Z notations with examples.	LMS&GCR
Dr. JAMSHEENA V	Applications of Huckel's rule to aromatic – anti-aromatic – non-aromatic compounds.	LMS&GCR
Dr. JAMSHEENA V	Aromaticity of benzenoid (benzene, naphthalene and anthracene) nonbenzenoid (furan, thiophene, pyrrole, pyridine)	LMS&GCR
Dr. JAMSHEENA V	Aromaticity of cyclopropene and cyclopropenyl ions, cyclopentadiene and cyclopentadienyl ions,	LMS&GCR
Dr. JAMSHEENA V	Aromaticity of cycloheptatriene and tropylium ion, cyclooctatetraene, azulene and annulenes	LMS&GCR
Dr. JAMSHEENA V	*Reactions of carboxylic acids – conversion to acid derivatives Fischer esterification, HVZ reaction – Decarboxylation – Kolbe electrolysis*	LMS&GCR
Dr. JAMSHEENA V	Hydroxy acids – Citric acid, Lactic acid, Malic acid and Tartaric acid	LMS&GCR
Dr. JAMSHEENA V	Methods of formation and chemical reactions of cinnamic acid and crotonic acid. Ascend and descend in carboxylic acid series.	LMS&GCR
Dr. JAMSHEENA V	*Transition Metals*: introduction	LMS&GCR
Dr. JAMSHEENA V	*Transition Metals*: ionization energy	LMS&GCR
Dr. JAMSHEENA V	*Transition Metals*: magnetic properties,	LMS&GCR
Dr. JAMSHEENA V	*Transition Metals*: reducing properties	LMS&GCR
Dr. JAMSHEENA V	*Transition Metals*: catalytic properties, non-stoichiometric compounds, complex formation and alloy	LMS&GCR
Dr. JAMSHEENA V	Explanation of metallic properties of transition metals based on theories of Metallic Bonding: Free electron theory, valence bond theory and band theory	LMS&GCR
Dr. JAMSHEENA V	*Lanthanides:* Occurrence of lanthanides –	LMS&GCR
Dr. JAMSHEENA V	Importance of beach sands of Kerala – Isolation of lanthanides from monazite sand	LMS&GCR
Dr. JAMSHEENA V	Lanthanide contraction, . Industrial importance of lanthanides.	LMS&GCR
Dr. JAMSHEENA V	*Actinides:* Electronic configuration and general characteristics – Comparison with lanthanides.	LMS&GCR

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Dr. JAMSHEENA V	**Organometallic Compounds:** Definition – Classification based on the nature of metal-carbon bond – Zeise's salt	LMS&GCR
Dr. JAMSHEENA V	18- electron rule. Metal carbonyls - Mononuclear and Polynuclear carbonyls of Fe, Co and Ni	LMS&GCR
Dr. JAMSHEENA V	Bonding in metal carbonyls.	LMS&GCR
Dr. JAMSHEENA V	Ferrocene: Preparation, properties and bonding	LMS&GCR
Dr. JAMSHEENA V	Catalysis: Zeigler Natta catalyst in the polymerization and Wilkinson catalyst in the hydrogenation of alkene.	LMS&GCR
Dr. JAMSHEENA V	Formation of molecular orbitals - bonding and antibonding MOs, nodes. Conjugated, cumulated and isolated double bonds	LMS&GCR
Dr. JAMSHEENA V	Introduction – Molecular orbitals of conjugated π systems (C2, C3, C4, C5 and C6 systems). Frontier Molecular Orbitals (FMOs).	LMS&GCR
Dr. JAMSHEENA V	Types of pericyclic reactions. Electrocyclic reactions: Butadiene↔cyclobutene and hexatriene↔cyclohexadiene interconversions. *Dis* and *con* rotation.	LMS&GCR
Dr. JAMSHEENA V	Cycloaddition reactions: Dimerisation of ethylene and Diel's-Alder reaction. Supra-supra and supra-antara interactions.	LMS&GCR
Dr. JAMSHEENA V	Sigmatropic reactions: [1,3], [1,5] and [3,3] rearrangements. FMO explanations and Woodward-Hoffmann selection rules for the above reactions.	LMS&GCR
Dr. JAMSHEENA V	Cope and Claisen rearrangements (mechanism expected).	LMS&GCR
Dr. JAMSHEENA V	Pericyclic reactions in human body – Vitamin D from cholesterol (elementary idea).	LMS&GCR
Dr. JAMSHEENA V	*Atomic Structure:* Bohr atom model and its limitations, de Broglie equation -	LMS&GCR
Dr. JAMSHEENA V	Heisenberg uncertainty principle - Schrödinger wave equation (mention only) - Atomic orbitals -	LMS&GCR
Dr. JAMSHEENA V	*Chemical Bonding:* Introduction – Type of bonds. Ionic bond: Factors favouring the formation of ionic bonds - Lattice energy of ionic compounds and its application.	LMS&GCR
Dr. JAMSHEENA V	Quantum numbers and their significance - Pauli's Exclusion principle - Hund's rule of maximum	LMS&GCR

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	multiplicity - Aufbau principle – Electronic configuration of atoms.	
Dr. JAMSHEENA V	Covalent bond: Lewis's theory – Coordinate bond. VSEPR theory: Shapes of $BeCl_2$, BF_3, $SnCl_2$, CH_4, NH_3, H_2O, NH_4, SO_4, PCl_5, SF_4, ClF_3, XeF_2, SF_6, IF_5, XeF_4, IF_7 and XeF_6.	LMS&GCR
Dr. JAMSHEENA V	Valence Bond theory - Hybridisation involving s, p and d orbitals: sp (acetylene), sp^2 (ethylene), sp^3 (CH_4), sp^3d (PCl_5), sp^3d^2 (SF_6).	LMS&GCR
Dr. JAMSHEENA V	Molecular Orbital theory: LCAO – Electronic configuration of H_2, B_2, C_2, N_2, O_2 and CO –	LMS&GCR
Dr. JAMSHEENA V	Calculation of bond order – determination of HOMO and LUMO – Explanation of bond length and bond strength.	LMS&GCR
Dr. JAMSHEENA V	Intermolecular forces - Hydrogen bonding in H_2O - Dipole-dipole interactions.	LMS&GCR
Dr. JAMSHEENA V	Specific conductance, equivalent conductance and molar conductance -	LMS&GCR
Dr. JAMSHEENA V	Variation of conductance with dilution -	LMS&GCR
Dr. JAMSHEENA V	Kohlrausch's law - Degree of ionization of weak electrolytes -	LMS&GCR
Dr. JAMSHEENA V	Application of conductance measurements – Conductometric titrations.	LMS&GCR
Dr. JAMSHEENA V	Galvanic cells	LMS&GCR
Dr. JAMSHEENA V	Cell and electrode potentials - IUPAC sign convention – Reference electrodes, Standard electrode potential -	LMS&GCR
Dr. JAMSHEENA V	Nernst equation -	LMS&GCR
Dr. JAMSHEENA V	H_2-O_2 fuel cell.	LMS&GCR
Dr. JAMSHEENA V	Ostwald's dilution law	LMS&GCR
Dr. JAMSHEENA V	Buffer solutions – Buffer action [acetic acid/sodium acetate & NH_4OH/NH_4Cl], applications of buffers.	LMS&GCR
Dr. JAMSHEENA V	*Conformations:* Conformations of ethane, Explanation of stability.	LMS&GCR
Dr. JAMSHEENA V	*Conformations:* Conformations of cyclohexane and methylcyclohexane – Explanation of stability.	LMS&GCR
Dr. JAMSHEENA V	*Geometrical Isomerism:* Definition – Condition – Geometrical isomerism in but-2-ene and but-2-ene-1,4-dioic acid – Methods of distinguishing geometrical isomers using melting point and dipole moment.	LMS&GCR

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Dr. JAMSHEENA V	*Optical Isomerism:* Optical activity – Chirality – Enantiomers – Meso compounds – Diastereoisomers –	LMS&GCR
Dr. JAMSHEENA V	Optical isomerism in lactic acid and tartaric acid.	LMS&GCR
Dr. JAMSHEENA V	*Halogen Compounds:* Preparation of alkyl halides from alkanes and alkenes – Wurt reaction and Fittig's reaction – Harmful effects of ethanol in the human body.	LMS&GCR
Dr. JAMSHEENA V	Mechanism of S_N1 and S_N2 reactions of alkyl halides –Effect of substrate and stereochemistry.	LMS&GCR
Dr. JAMSHEENA V	*Alcohols:* Preparation from Grignard reagent – Preparation of ethanol from molasses – Wash, rectified spirit, absolute alcohol, denatured spirit, proof spirit and power alcohol– Comparison of acidity of ethanol, isopropyl alcohol and *tert*-butyl alcohol	LMS&GCR
Dr. JAMSHEENA V	*Phenols:* Preparation from chlorobenzene – Comparison of acidity of phenol, *p*-nitrophenol and *p*-methoxyphenol – Preparation and uses of phenolphthalein.	LMS&GCR
Dr. JAMSHEENA V	*Aldehydes & Ketones:* Preparation from alcohols – Nucleophilic addition reactions (HCN and bisulphite) – Comparison of nucleophilic addition rate of aliphatic aldehydes and ketones.	LMS&GCR
Dr. JAMSHEENA V	*Carboxylic Acids:* Preparation from Grignard reagent – Decarboxylation – Kolbe Electrolysis	LMS&GCR
Dr. JAMSHEENA V	*Amines:* Preparation from nitro compounds – Hofmann's bromamide reaction – Hofmann's carbylamines reaction. Basicity: Comparison of basicity of ammonia, methyl amine and aniline.	LMS&GCR
Dr. JAMSHEENA V	*Diazonium Salts*: Preparation and synthetic applications of benzene diazonium chloride – Preparation and uses of methyl orange.	LMS&GCR
Dr. JAMSHEENA V	*Alkaloids:* Classification – Source, structure and physiological functions of nicotine, coniine and piperine.	LMS&GCR
Dr. JAMSHEENA V	*Terpenes:* Classification with examples – Isoprene rule – Isolation of essential oils by steam	LMS&GCR

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	distillation – Uses of lemongrass oil, eucalyptus oil and sandalwood oil	
Dr. JAMSHEENA V	Source, structure and uses of citral and menthol – Natural rubber – Vulcanization and its advantage	LMS&GCR
Dr. JAMSHEENA V	Nature of Bonding in Organic Molecules: Localized and delocalized chemical bonding, bonding weaker than the covalent bond,	LMS&GCR
Dr. JAMSHEENA V	cross- conjugation, resonance, rules of resonance, resonance hybrid and resonance energy, tautomerism, hyperconjugation, π-π interactions, pπ-dπ bonding (ylides).	LMS&GCR
Dr. JAMSHEENA V	Hydrogen bonding: Inter and intra-molecular hydrogen bonding. Range of the energy of hydrogen bonding. Effect of hydrogen bond on conformation, physical and chemical properties of organic compounds- volatility, acidity, basicity, and stability.	LMS&GCR
Dr. JAMSHEENA V	crown ether complexes, cryptates, inclusion compounds, and cyclodextrins.	LMS&GCR
Dr. JAMSHEENA V	Hückel MO method. MO's of simple molecules, ethylene, allyl radical and 1, 3- Butadiene	LMS&GCR
Dr. JAMSHEENA V	Hückel rule and modern theory of aromaticity, criteria for aromaticity and antiaromaticity, MO description of aromaticity and antiaromaticity.	LMS&GCR
Dr. JAMSHEENA V	Homoaromaticity. Aromaticity of annulenes and hetero annulenes, fused ring systems,	LMS&GCR
Dr. JAMSHEENA V	fulvenes, fulvalenes, azulenes, pentalenes, and heptalenes.	LMS&GCR
Dr. JAMSHEENA V	Preparation of aromatic and antiaromatic compounds by different methods, the stability of benzylic cations and radicals. Effect of delocalized electrons on pKa.	LMS&GCR
Dr. JAMSHEENA V	Basic principles of group theory - the defining properties of mathematical groups, finite and infinite groups, Abelian and cyclic groups, group multiplication tables (GMT), similarity transformation, sub groups & classes in a group.	LMS&GCR
Dr. JAMSHEENA V	Molecular Symmetry & point groups - symmetry elements and symmetry operations in molecules,	LMS&GCR
Dr. JAMSHEENA V	Relations between symmetry operations, complete set of symmetry operations of a molecule,	LMS&GCR

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Dr. JAMSHEENA V	point groups and their systematic identification, GMT of point groups.	LMS&GCR
Dr. JAMSHEENA V	Mathematical preliminaries - matrix algebra, addition and multiplication of matrices, inverse of a matrix, square matrix, character of a square matrix, diagonal matrix,	LMS&GCR
Dr. JAMSHEENA V	Direct product and direct sum of square matrices, block factored matrices, solving linear equations by the method of matrices;	LMS&GCR
Dr. JAMSHEENA V	Matrix representation of symmetry operations	LMS&GCR
Dr. JAMSHEENA V	Representations of point groups - basis for a representation, representations using vectors, atomic orbitals	LMS&GCR
Dr. JAMSHEENA V	Representations of point groups - and Cartesian coordinates positioned on the atoms of molecule (H_2O as example) as bases	LMS&GCR
Dr. JAMSHEENA V	reducible representations and irreducible representations (IR) of point groups	LMS&GCR
Dr. JAMSHEENA V	construction of IR by reduction	LMS&GCR
Dr. JAMSHEENA V	Great Orthogonality Theorem and its consequences	LMS&GCR
Dr. JAMSHEENA V	derivation of characters of IR using GOT	LMS&GCR
Dr. JAMSHEENA V	construction of character tables of point groups C_{2v}	LMS&GCR
Dr. JAMSHEENA V	construction of character tables of point group C_{3v}	LMS&GCR
Dr. JAMSHEENA V	construction of character tables of point group C_{2h}	LMS&GCR
Dr. JAMSHEENA V	construction of character tables of point group C_{4v}	LMS&GCR
Dr. JAMSHEENA V	construction of character tables of point group C_3	LMS&GCR
Dr. JAMSHEENA V	nomenclature of IR- Mulliken symbols, symmetry species.	LMS&GCR
Dr. JAMSHEENA V	Reduction formula - derivation of reduction formula using GOT, reduction of reducible representations, (e.g.,Γ_{cart}) using the reduction formula.	LMS&GCR
Dr. JAMSHEENA V	Relation between group theory and quantum mechanics – wavefunctions (orbitals) as bases for IR of point groups.	LMS&GCR
Dr. JAMSHEENA V	Molecular vibrations - symmetry species of normal modes of vibration, construction of Γ_{cart},	LMS&GCR
Dr. JAMSHEENA V	Normal coordinates and drawings of normal modes (e.g., H_2O and NH_3), selection rules for IR and Raman activities based on symmetry arguments	LMS&GCR

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Dr. JAMSHEENA V	Determination of IR active and Raman active modes of molecules H_2O complementary character of IR and Raman spectra.	LMS&GCR
Dr. JAMSHEENA V	Determination of IR active and Raman active modes of molecules NH_3,	LMS&GCR
Dr. JAMSHEENA V	Determination of IR active and Raman active modes of molecules CH_4	LMS&GCR
Dr. JAMSHEENA V	Determination of IR active and Raman active modes of molecules SF_6	LMS&GCR
Dr. JAMSHEENA V	Spectral transition probabilities - direct product of irreducible representations	LMS&GCR
Dr. JAMSHEENA V	Spectral transition probabilities: use in identifying vanishing and non–vanishing integrals, transition moment integral and spectral transition probabilities.	LMS&GCR
Dr. JAMSHEENA V	Electronic Spectra – electronic transitions and selection rules, Laporte selection rule for centro symmetric molecules.	LMS&GCR
Dr. JAMSHEENA V	Hybridization - Treatment of hybridization in BF_3	LMS&GCR
Dr. JAMSHEENA V	Hybridization - Treatment of hybridization in CH_4	LMS&GCR
Dr. JAMSHEENA V	Inverse transformation and construction of hybrid orbitals	LMS&GCR
Dr. JAMSHEENA V	Molecular orbital theory –H_2O as examples, classification of atomic orbitals involved into symmetry species, group orbitals,	LMS&GCR
Dr. JAMSHEENA V	symmetry adapted linear combinations (SALC), projection operator,	LMS&GCR
Dr. JAMSHEENA V	construction of SALC using projection operator,	LMS&GCR
Dr. JAMSHEENA V	use of projection operator in constructing SALCs for the Π MOs in cyclopropenyl ($C_3H_3^+$)cation.	LMS&GCR
Dr. JAMSHEENA V	Classification of redox reaction mechanisms. Outer sphere and inner sphere mechanisms.	LMS&GCR
Dr. JAMSHEENA V	Marcus equation. Effect of the bridging ligand.	LMS&GCR
Dr. JAMSHEENA V	Methods for distinguishing outer- and inner-sphere redox reactions.	LMS&GCR
Dr. JAMSHEENA V	Photochemical reactions of metal complexes: Prompt and delayed reactions. Excited states of metal complexes- Interligand, ligand field, charge transfer, and delocalized states. Properties of ligand field excited states.	LMS&GCR

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Dr. JAMSHEENA V	Photosubstitution- Prediction of substitution lability by Adamson`s rules. Photoaquation. Photo isomerization and photo racemization.	LMS&GCR
Dr. JAMSHEENA V	Illustration of reducing and oxidizing character of $[Ru(bipy)_3]^{2+}$ in the excited state. Metal complex sensitizers- water photolysis.	LMS&GCR
Dr. JAMSHEENA V	Mechanistic and stereochemical aspects of addition to C=C involving electrophiles, nucleophiles and free radicals.	LMS&GCR
Dr. JAMSHEENA V	Effect of substituents on the rate of addition, orientation of addition, addition to conjugated systems and cyclopropane rings,	LMS&GCR
Dr. JAMSHEENA V	Michael reaction.	LMS&GCR
Dr. JAMSHEENA V	Mechanistic and stereochemical aspects of E1, E1cB and E2 eliminations.	LMS&GCR
Dr. JAMSHEENA V	The effect of substrate structure, base, leaving group and reaction medium on elimination reactions	LMS&GCR
Dr. JAMSHEENA V	Saytzev *vs* Hofmann elimination, α- elimination, pyrolytic *syn* elimination (E*i*) and conjugate eliminations	LMS&GCR
Dr. JAMSHEENA V	Competition between substitution and elimination reactions, basicity *vs* nucleophilicity. Extrusion reactions- extrusion of N_2, CO and CO_2.	LMS&GCR
Dr. JAMSHEENA V	Reactive Intermediates: Generation, geometry, stability, and reactions of carbonium ions	LMS&GCR
Dr. JAMSHEENA V	Reactive Intermediates: Generation, geometry, stability, and reactions of carbanions	LMS&GCR
Dr. JAMSHEENA V	Reactive Intermediates: Generation, geometry, stability, and reactions of free radicals and carbenes,	LMS&GCR
Dr. JAMSHEENA V	Reactive Intermediates: Generation, geometry, stability, and reactions of nitrenes and benzynes.	LMS&GCR
Dr. JAMSHEENA V	Crystal symmetry: Symmetry elements and symmetry operations,	LMS&GCR
Dr. JAMSHEENA V	Mathematical proof for the non-existence of 5-fold axis of symmetry,	LMS&GCR
Dr. JAMSHEENA V	*NMR:* Quantum mechanical description of Energy levels-Population of energy-Transition probabilities using ladder operators	LMS&GCR
Dr. JAMSHEENA V	Nuclear shielding, Chemical shift,	LMS&GCR
Dr. JAMSHEENA V	Spin-Spin coupling and splitting of NMR signals	LMS&GCR

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Dr. JAMSHEENA V	Quantum mechanical Description- AX and AB NMR pattern.	LMS&GCR
Dr. JAMSHEENA V	Effect of Relative magnitudes of J (Spin-Spin coupling)	LMS&GCR
Dr. JAMSHEENA V	Chemical Shift on the spectrum of AB type molecule	LMS&GCR
Dr. JAMSHEENA V	Karplus relationship.	LMS&GCR
Dr. JAMSHEENA V	Nuclear Overhauser Effect-	LMS&GCR
Dr. JAMSHEENA V	FT NMR- Pulse sequence for T1 and T2 (Relaxation) measurements.	LMS&GCR
Dr. JAMSHEENA V	2D NMR COSY	LMS&GCR
Dr. JAMSHEENA V	*HNMR:* Chemical shift, factors influencing chemical shift, anisotropic effect.	LMS&GCR
Dr. JAMSHEENA V	Chemical shift values of protons in common organic compounds	LMS&GCR
Dr. JAMSHEENA V	chemical, magnetic and stereochemical equivalence	LMS&GCR
Dr. JAMSHEENA V	Enantiotopic, diasteriotopic and homotopic protons	LMS&GCR
Dr. JAMSHEENA V	Protons on oxygen and nitrogen. Quadrapole broadening	LMS&GCR
Dr. JAMSHEENA V	effects of chemical exchange, fluxional molecules,	LMS&GCR
Dr. JAMSHEENA V	hindered rotation on NMR spectrum	LMS&GCR
Dr. JAMSHEENA V	first order and non-first order NMR spectra	LMS&GCR
Dr. JAMSHEENA V	General aspects of synthesis. Structure, reactivity and applications of main group organometallic compounds. Metal complexes of CS, RNC	LMS&GCR
Dr. JAMSHEENA V	Metal complexes of NO	LMS&GCR
Dr. JAMSHEENA V	Metal complexes of H2	LMS&GCR
Dr. JAMSHEENA V	Metal complexes of Phosphines	LMS&GCR
Dr. JAMSHEENA V	Metal complexes of N-heterocyclic carbons	LMS&GCR
Dr. JAMSHEENA V	Metal-carbon multiple bonds - Metal carbenes and carbynes, bridging carbenes and carbynes	LMS&GCR
Dr. JAMSHEENA V	synthesis, structure, bonding (molecular orbital treatment) and reactions of C_5H_5, C_6H_6	LMS&GCR
Dr. JAMSHEENA V	synthesis, structure, bonding (molecular orbital treatment) and reactions of C_7H_7 and C_8H_8	LMS&GCR
Dr. JAMSHEENA V	Fluxional organometallics.	LMS&GCR
Dr. JAMSHEENA V	Applications of organometallic compounds in organic synthesis and homogeneous catalysis	LMS&GCR
Dr. JAMSHEENA V	Complex formation and activation of H_2, N_2, O_2	LMS&GCR

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Dr. JAMSHEENA V	Complex formation and activation of NO by transition metals.	LMS&GCR
Dr. JAMSHEENA V	Oxidative addition	LMS&GCR
Dr. JAMSHEENA V	reductive elimination	LMS&GCR
Dr. JAMSHEENA V	insertion reactions.	LMS&GCR
Dr. JAMSHEENA V	Hydrozirconation of alkenes and alkynes.	LMS&GCR
Dr. JAMSHEENA V	Hydrogenation, isomerization of alkenes, alkyne, Metal complexes in enantioselective synthesis	LMS&GCR
Dr. JAMSHEENA V	cycloadditions,	LMS&GCR
Dr. JAMSHEENA V	Zeigler-Natta catalysis,	LMS&GCR
Dr. JAMSHEENA V	hydroformylation of alkenes,	LMS&GCR
Dr. JAMSHEENA V	Monsanto acetic acid process	LMS&GCR
Dr. JAMSHEENA V	Wacker process	LMS&GCR
Dr. JAMSHEENA V	Organometallic reactions. SN_2 Reactions, Radical Mechanisms, Ionic Mechanisms,	LMS&GCR
Dr. JAMSHEENA V	σ-Bond Metathesis, Oxidative Coupling and Reductive decoupling.	LMS&GCR
Dr. JAMSHEENA V	Reactions involving CO, Insertions Involving Alkenes,	LMS&GCR
Dr. JAMSHEENA V	α, β, γ and δ Elimination, Deinsertion and	LMS&GCR
Dr. JAMSHEENA V	Nucleophilic and electrophilic attack on coordinated ligand	LMS&GCR
Dr. JAMSHEENA V	Polymers with organometallic moieties as pendant groups. Polymers with organometallic moieties in the main chain.	LMS&GCR
Dr. JAMSHEENA V	Condensation polymers based on ferrocene and on rigid rod polyynes, poly (ferrocenylsilane)s, applications of oly(ferrocenylsilane)s and related polymers.	LMS&GCR
Dr. JAMSHEENA V	Applications of rigid-rod polyynes, polygermanes and polystannanes.	LMS&GCR
Dr. JAMSHEENA V	Polymers prepared by ring opening polymerization. Organometallic dendrimers	LMS&GCR
Dr. JASNA V C	Conformation of butadiene and cyclohexane	LMS&GCR
Dr. JASNA V C	Stereochemistry	LMS&GCR
Dr. JASNA V C	Optical and geometrical isomerism	LMS&GCR
Dr. JASNA V C	Optical isomerism and asymmetric synthesis	LMS&GCR
Dr. JASNA V C	R and S system of nomenclature	LMS&GCR
Dr. JASNA V C	R and S system and geometrical isomerism	LMS&GCR
Dr. JASNA V C	Debromination, semipinacolic deamination, dehydrohalogenation	LMS&GCR

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Dr. JASNA V C	Conformational analysis 2	LMS&GCR
Dr. JASNA V C	Dehydrohalogenation	LMS&GCR
Dr. JASNA V C	SN2 reaction in substituted cyclohexane	LMS&GCR
Dr. JASNA V C	SN1 and elimination reaction in substituted cyclohexane	LMS&GCR
Dr. JASNA V C	Esterification of hydroxyl group	LMS&GCR
Dr. JASNA V C	Stereochemistry class 1	LMS&GCR
Dr. JASNA V C	Stereochemistry class 2	LMS&GCR
Dr. JASNA V C	Stereochemistry class 3	LMS&GCR
Dr. JASNA V C	Re-Si Phase	LMS&GCR
Dr. JASNA V C	R and S Configuration	LMS&GCR
Dr. JASNA V C	Optical Activity	LMS&GCR
Dr. JASNA V C	Prochirality	LMS&GCR
Dr. JASNA V C	Topicity	LMS&GCR
Dr. JASNA V C	Optical activity of biphenyles, allenes, spiranes	LMS&GCR
Dr. JASNA V C	Stereochemistry class 4	LMS&GCR
Dr. JASNA V C	Stereochemistry class 5	LMS&GCR
Dr. JASNA V C	Geometrical Isomerism	LMS&GCR
Dr. JASNA V C	Assymmetric synthesis class 1	LMS&GCR
Dr. JASNA V C	Examples	LMS&GCR
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Dr. JASNA V C	Gaseous state	LMS&GCR
Dr. JASNA V C	Kinetic theory of gases	LMS&GCR
Dr. JASNA V C	Maxwel distribution law	LMS&GCR
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Dr. JASNA V C	Behaviour of real gases	LMS&GCR
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Dr. JASNA V C	Solid state 1	LMS&GCR
Dr. JASNA V C	Solid state 2	LMS&GCR
Dr. JASNA V C	Atom economy	LMS&GCR
Dr. JASNA V C	Supramolecular chemistry	LMS&GCR

KORAMBAYIL AHAMED HAJI MEMORIAL UNITY WOMEN'S COLLEGE MANJERI
NARUKARA P.O MALAPPURAM (Dt.)
Date

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Dr. JASNA V C	Self-assembly	LMS&GCR
Dr. JASNA V C	Molecular recognition	LMS&GCR
Dr. JASNA V C	An introduction to combinatorial chemistry	LMS&GCR
Dr. JASNA V C	Combinatorial chemistry	LMS&GCR
Dr. JASNA V C	Microwave assisted reactions	LMS&GCR
Dr. JASNA V C	Sonochemical reactions	LMS&GCR
Dr. JASNA V C	Petroleum fuels	LMS&GCR
Dr. JASNA V C	Pharmaceutical chemistry	LMS&GCR
Dr. JASNA V C	Pyridine synthesis	LMS&GCR
Dr. JASNA V C	Quinoline synthesis	LMS&GCR
Dr. JASNA V C	Imidazole synthesis	LMS&GCR
Dr. JASNA V C	Isoquinoline synthesis	LMS&GCR
Dr. JASNA V C	Adenine Guanine synthesis	LMS&GCR
Dr. JASNA V C	Uracil and cytocine synthesis	LMS&GCR
Dr. JASNA V C	Molecular assembly and H bonded molecular assembly	LMS&GCR
Dr. JASNA V C	Crown ethers and cryptands	LMS&GCR
Dr. JASNA V C	Cyclodextrins as receptors	LMS&GCR
Dr. JASNA V C	Cryptands and crown ethers	LMS&GCR
Dr. JASNA V C	Calixaranes as molecular receptors	LMS&GCR
Dr. JASNA V C	Cyclodextrins	LMS&GCR
Dr. JASNA V C	Cyclophanes as molecular receptors	LMS&GCR
Dr. JASNA V C	Gilmann reagent	LMS&GCR
Dr. JASNA V C	Organo silicon compounds	LMS&GCR
Dr. JASNA V C	Organo palladium compounds	LMS&GCR
Dr. JASNA V C	Organo boron compounds	LMS&GCR
Dr. JASNA V C	Organo chromium compounds	LMS&GCR
Dr. JASNA V C	TG	LMS&GCR
Dr. JASNA V C	Thermogravimetry	LMS&GCR
Dr. JASNA V C	DTA and DSC	LMS&GCR
Dr. JASNA V C	Counting techniques and thermometric titrations	LMS&GCR
Dr. JASNA V C	Thermal methods	LMS&GCR
Dr. JASNA V C	Speciality polymers	LMS&GCR
Dr. JASNA V C	Polymers	LMS&GCR
Dr. JASNA V C	Types of polymers	LMS&GCR
Dr. JASNA V C	Polymerisation techniques	LMS&GCR
Najeera P C	Binding Energy	GCR
Najeera P C	Nuclear fusion & Fission	GCR
Najeera P C	Stabity of nucleus	GCR
Najeera P C	Nano materials synthesis	GCR

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Najeera P C	Hydrogen Bomb	GCR
Najeera P C	Nuclear reactors	GCR
Thasnim P	Electroanalytical Methods	LMS
Thasnim P	Organometallic Polymers	LMS
Thasnim P	Cyclic Polyenes	LMS
Thasnim P	Volumetric Analysis	LMS
Thasnim P	Innertransition Elements	LMS
Thasnim P	Applied Organic Chemistry	LMS
Thasnim P	Quantum Mechanics of Multielectron Atoms	LMS
Thasnim P	Nanomaterials	LMS
Dr. Shamsheera K O	Commercial Polymers	LMS, GCR
Dr. Shamsheera K O	Synthetic Reagents	GCR
Dr. Shamsheera K O	Organic Photochemistry	GCR
Dr. Shamsheera K O	Instrumental methods of analysis	LMS
Dr. Shamsheera K O	Pericyclic reactions	LMS, GCR
Dr. Shamsheera K O	Nitrogen containing compounds	LMS
Dr. Shamsheera K O	LTA	LMS, GCR
Dr. Shamsheera K O	LDA	LMS, GCR
Dr. Shamsheera K O	LiAlH4	LMS, GCR
Dr. Shamsheera K O	NBS	LMS, GCR
Dr. Shamsheera K O	DIBAL and LiBH4	LMS, GCR
Dr. Shamsheera K O	PTC	LMS, GCR
Dr. Shamsheera K O	SEM and TEM	LMS
Dr. Shamsheera K O	AFM	LMS

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