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The BOS was held on FED to appear	meeting confere the follow	of Chemistry and Hall, I	depastment (.L. University
AGIENDA 1.	To resolv	c and recomme	end the
The following men	nbers wer	1	
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erial Name of the Person	Designation	Institution	Signature
1 Dr.J V Shanmukh Kumar	Professor	K L University	C C S
2 Dr. M V Basavaswara Rao	Professor	Krishna University, Machilipatnam	Jumi
Dr C Venkat Rao	Professor	Sri Venketeswara University, Tirupathi	Clean
Dr.K R S Prasad	Professor	K L University	KRSPElsed
Dr Ravindhranath	Professor	K L University	d. la: 11.8
Dr I V Kasi Viswanath	Assistant Professor	K L University	dur

Minutes of the Meeting (BOS) et is resolved & recommended the syllabus 2- 9t is repolved & recommended

the syllabus of Interpreted M.Sc. Chemistry
with modular approach. Hence, 2+ was resolved that members came up with suitable justification for the recommendation of the syllabors of both Mrse Chemistry of Integrated Mrsc. Chemistry by the next BOS meeting and can be deliberation for the change from the next academic year.

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	16 CY			Course Code				,	
	General Chemistry-I			Course Title					
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	4			Credits			-2018 M		
CO4	C03	C02	C01	NO NO			Sc B	DE	
Develop the small computer codes using any one of the languages FORTRAN/C/BASIC	Describe and Apply the Visible spectrophotometric and potentiometric	Illustrate the Titrimetric Analysis	Classify and explain of analytical data	Description of the Course Outcome		Course Articulation	2016-2018 M.Sc BATCH Course Outcomes vs Program Outcomes	DEPARTMENT OF CH	K L UNIVERS
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	problem-solving skills to do well in general chemistry, as in many other disciplines				Course Rationale		Jutcomes		

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carbonyls, and	hydrides, metal		reactivities, and	structures,	the bonding models	a function of	vibrational spectra as	molecule's		objects, and to predict 2	molecules and	characteristics to	and assign symmetry	theory to recognize	the use of group	of simple molecules	predicting geometries 1	uleililodynamic data	thomas data	MO diagrams and	bond distances and	including 2	compounds,	ionic and covalent	fundamentals for both	The bonding
		1 2			1													+	_							
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										ateri	for di	appropriate separation/isolation	visualization tools to view molecules,	computer-based, structure	The skills will be developed in											

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techniques, synthesis of new drugs					Understand the		Z -	ξ.	Organic I-yrısimədƏ	1103 16 CX	3
The skills will be developed to identify the otganic compounds, separation					samp		, –	-0-#	Simonal	A3 71	William I
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CO3	CO2	COI	CO5	CO4	СОЗ	CO2	COI	COS	
Classical and quantum theories of Raman and Electronic Spectra of diatomic molecules	Energy associates with the degrees of freedom	Symmetry and Group theory of the molecules	An ability to analyze, generate experimental skills towards the industrial applications.	To understand the concepts of photo chemistry & lunninescence	Discuss the different aspects of kinetics of the types of reactions	Applications of macromolecules & Micells.	Concepts of Classical thermodynamics & laws of thermodynamics	Knowledge in this course will train the students in scientific research approach.	synthesis methods
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options	chemistry qualification also opens up a wide range of alternative career			techniques.	To gain familiarity with a variety of physico-chemical measurement				

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mechanisms	of Inorganic reaction	determinations.	stability, and	Kinetic and thermal	formation, their	withrespect to the	equilibria in solution	Metal Ligand	principles behind the	Illustrate, the	metals,	complexes of transition	structures of π -	properties, bonding and	Explain the synthesis,	cluster compounds.	formation of metal	principles behind the	Understand the	Spectroscopy	Resonance	Nuclear Magnetic	Applications of	Basic principles and			and poly atomic molecules
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CO2	C01		COS			CO4)		CO3			CO2)		COI				CO5			
-		Physical methods of		An ability to analyze,	unique properties.		Differentiate the	compounds.	new and notable organic 2	Apply various reaction	reactions.	substitution and addition 2	Describe the relationship	compounds	mechanisms of C=C 2	Derive the Electrophilic	cations	radicals and rare	 mixtures containing 2	qualitative analysis of	in the semi-micro	Expertise the student
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ability to work independently.	To develop laboratory skills and the		2					.em as are made applications.	To develop the experimental skills	1												



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Organic Spectroscopy - I		and pericyclic reactions	Organic Reaction Mechanisms				
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C01	CO4	CO3	C02	C01	COS	CO4	CO3
Evaluate theoretical and experimental l methods of analysis	Ability to explain pericyclic reactions involved in various 2 organic rearrangement reactions.	Understand organic reaction mechanism in terms of pericyclic 2 reactions at different conditions.	nucleophillic and free radical substitution 2 mechanisms in new chain linkages	/electrophillic pathway 2 to synthesize new organic entities Apply aromatic	skills towards the industrial applications. Ability to apply	electrode electrolyte 2 interface An ability to analyze,	Discuss fundamental aspect of electrochemistry for 2 energy device application. Electrochemistry of
e de la companya de l			,		2		
To develop the skills in interpretation of Organic compounds		synthetic routes to complex target molecules such as drugs and natural products	The participants will acquire broad knowledge to modern organic chemical reactions and				

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synthesise organic compounds	Understand the applications of organic boranes.	Make use of organic polymerization processes	Develop carbon-carbon double bonds using notable elimination reactions	Build carbon-carbon single bond associated molecules (carbenes-carbenoids	spectrometry) in organic structure elucidation.	(UV,IR,IH-NMR,13C- NMR & mass	Able to apply	Understand proton NMR & 13C NMR and mass spectrometry methods of analysis	Evaluate theoretical and experimental methods of analysis using UV spectroscopy	in editorial de de commente de commente de constante de constante de constante de constante de constante de co	using IR spectroscopy
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To develop the skill in separation of		Q	To develop the skills in synthesis of new drugs								



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			-	\dashv	-		Summarize basic				photochemistry			
mechanisms and synthetic routes.			-			ts.	radical rearrangements.			_	and organic	2214		
Ability to work out reaction						ĕ 	electrophillic and free		4	4	Mechanisms	16 CY	13	-
Ability to work out rootion					_		nucleophillic	70.7		>	Reaction			
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COS	CO4	СОЗ	C02	C01	CO4	СОЗ	C02	CO1
To analyze organic molecules from binary mixtures	Develop convergent and linear synthetic methods using disconnection approach	Choose appropriate reducing agents in reducing coupling reactions	Choose appropriate oxidizing agents in oxidative coupling reactions	Apply organo silanes and phase transfer catalyst in organic synthesis	Elucidate organic structures using mass fragmentation ORD&CD	Take part in fragmentation of organic molecules associated with functional groups	Examine the separation of chemical shifts and coupling on 2D axis	Outline optical rotatory dispersion and circular dichroism.
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		To develop the synthesis of organic compounds				UV, IR Spectra of Unknown Compounds in an Organic Spectroscopy	Skills for Interpreting ¹ H NMR, C13,	

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concepts and applications of Ion exchange	chromatography	chromatography and	concepts and	Understanding the	basic sources	To estimate organic	applications.	chromatographic	preparation of ion	Understand the	chromatography and HPLC	description of gas	instrumental	Chemicals	separation of	methods for	chromatographic	Classify the different	techniques	purification	Understand classical	
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chemistry lab: Solvent extraction using separating funnel. Paper Chromatography.	acquires skills to perform experiments using the followingtechniques in the	fractional distillation, etc. Student	solvent extraction, chromatography,	understands the following terms:									education with other subjects	in groups through research	or allewill be developed individually or							

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concepts and applications of paper chromatography and thin layer chromatography	Ability to analyse chemicals by Instrumental methods	Comprehend the basic knowledge of mass spectroscopy and X-ray spectroscopy to characterize the unknown molecules	Illustration of the concept of Nuclear magnetic and ESR spectroscopy and their applications.	Understand the basic concepts of rotational and vibrational spectroscopic methods.	Understand the concepts of excitation spectroscopic methods.	Ability to analyse chemicals by clasical methods
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something has to be developed from the beginning	analytical problem is entirely new		To develop the skills instrumental separation methods			

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use of a variety of special techniques						involving various						
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of reasoning. Recognize relations						Homogeneous						
critically. Pursue complex lines						Precipitations from						
Think analytically, logically and						illustrate the					naka-naja, ka	
						Discuss, explain and						
				-	_	different ions.						
						titrations for assaying					ومعتنين و	
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Parameters					2	quality with respect	CO3		·	Allalysis – II	C17770		
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