

B.L.D.E Association's
S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Remedial Classes Syllabus for M.Sc. IIIrd Semester

UNIT. I. Inorganic Chemistry

Classification of organometallic compounds, the 16 and 18 electron rule, synthesis, structure and bonding in metal alkyl (Li, Mg and Al) and reactions of Grignard's reagents. Chemistry of organometallic compounds with π - bonding ligands : Synthesis, Structure, Spectroscopy, Reactions and bonding in metal - carbon π - bonded systems involving dihapto to hexahapto ligands Viz, Olefins (Zeise's salt), acetylenes, allylic moieties, butadienes, cyclobutadienes, cyclopentadienes and arenes.

UNIT. II. Organic Chemistry

Aromatic electrophilic substitution reactions: General mechanism of electrophilic substitution in aromatic systems using examples of nitration, halogenations, sulphonation and Friedal Craft alkylation and acylation. Orientation effect of disubstitution in aromatic systems with suitable examples.

Nucleophilic substitution at saturated carbon: Mechanism of SN1, SN2 , SNi reactions - effect of solvent, substrate and leaving group, neighboring group participation, substitution at vinylic and allylic carbon.

Aromatic nucleophilic substitution reactions: Substitution of hydrogen, substitution other than hydrogen, SNAR reactions, SN1, SN2 and benzyne mechanism, Bucherer reaction.

UNIT. III. Physical Chemistry

Material Chemistry

Introduction: Fundamentals and importance, Metal nanoclusters, magic numbers, theoretical modeling of nano particles, Geometric structure, electronic structure, reactivity, fluctuations, magnetic clusters, Bulk to nano transitions. Semiconducting nanoparticles- optical properties, photofragmentation, coulombic explosion. Carbon nano particles: Introduction, Carbon molecules, Nature of the carbon bond, New carbon structures. Carbon clusters: small carbon clusters, C60; Discovery, structure, crystal, alkali doping, super conductivity, Fullerenes, other Bulkyballs. Carbon nano-tubes: Fabrication, structure, electrical properties, vibrational properties, mechanical properties, application of nano materials.

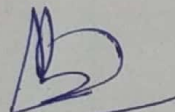
B.L.D.E Association's
S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Remedial Classes-2019-20

NOTICE

The PG Department of chemistry is conducting Remedial classes for M.Sc IIIrd Semester Students on 08.08.2019, 07.09.2019, 09.10.2019, 22.11.2019 and 03.12.2019. All the students are hereby informed to attend the Class.

CS

Principal,
S. B. Arts & KCP Sc. College,
Bijapur



IQAC, Coordinator
S.B.Arts & K.C.P.Science College,
Vijayapur

Coordinator

PG Studies in Chemistry

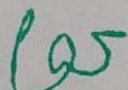


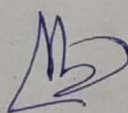
Co-ordinator,
P. G. Department of Chemistry,
SB Arts & KCP Science College
BIJAPUR - 586101

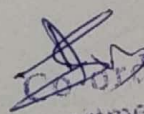
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S.B. Arts and K.C.P. Science College Bijapur
 P.G. Dept of Chemistry
 Remedial Classes-2019-2020

Time Table

Time/day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11.30 to 12.30				SNU 08.08.2019		
11.30 to 12.30						SDL 07.09.2019
11.30 to 12.30			PKM 09.10.2019			
11.30 to 12.30					SNU 22.11.2019	
11.30 to 12.30		SDL 03.12.2019				


 Principal,
 S. B. Arts & KCP Sc. College,
 Bijapur


~~Coordinator~~
 S.B.Arts & K.C.P.Science College,
 Vijayapur,


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 SB Arts & KCP Science College
 BIJAPUR - 586101

B.L.D.E Association's
S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Student List 2019-20
Subject : Organic Chemistry
REMEDIAL CLASS

S.I No	Reg.No.	Name					
1	CH182001	Aishwarya Sajjan					
2	CH182002	Akshata Marab					
3	CH182004	Archana Pattar					
4	CH182006	Bibizahera Bevanur					
5	CH182011	Meenaxi Hosamani					
6	CH182017	Tabasum Badeghar					
7	CH182018	Tejaswini Pawar					
8	CH182019	Umarani Sachin					
9	CH182021	Vijyalaxmi Meti					
10	CH182022	Yallur Santosh					

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IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijavardur

Principal,
S.B.Arts & K.C.P. Science College
BIJAPUR.