

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

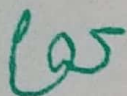
Material Chemistry

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.

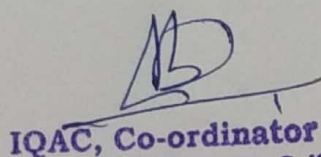
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S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Remedial Classes-2018-2019

NOTICE

The PG Department of chemistry is conducting Remedial classes for M.Sc IIIrd Semester Students on 13.08.2018, 04.09.2018, 09.10.2018, 08.11.2018 and 12.12.2018. All the students are hereby informed to attend the Class.

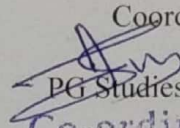


Principal,
S. B. Arts & KCP Sc. College, S.B.Arts & K.C.P.Science College,
Bijapur



IQAC, Co-ordinator
Vijayapur.

Coordinator



PG Studies in Chemistry

Co-ordinator,

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

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 P.G. Dept of Chemistry
 Remedial Classes-2018-2019

Time Table

Time/day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11.30 to 12.30	SNU 13.08.2018					
11.30 to 12.30		SDL 04.09.2018				
11.30 to 12.30		PKM 09.10.2018				
11.30 to 12.30				SNU 08.11.2018		
11.30 to 12.30			SDL 12.12.2018			

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Principal,
 S. B. Arts & KCP Sc. College, S.B.Arts & K.C.P.Science College,
 Bijapur

MB

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

AS

Co-ordinator,
 P. G. Department of Chemistry,
 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 2018-19
Subject: Inorganic Chemistry
REMEDIAL CLASS

S.I No	Reg.No.	Name					
1	CH172001	Akshay Wadageri					
3	CH172003	Basavaraj A Patil					
4	CH172005	Geeta Kuntoji					
5	CH172007	Hajimastan Mujawar					
6	CH172009	Kavita Angadi					
7	CH172013	Neha Taslim					
8	CH172014	Pooja Kengal					
9	CH172018	Sheshidhar Mamane					
10	CH172019	Shweta Pande					

Co-ordinator,
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