

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

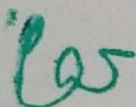
Material Chemistry

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.

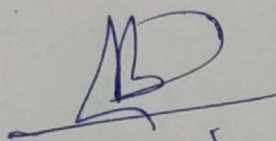
B.L.D.E Association's
S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Remedial Classes-2015-2016

NOTICE

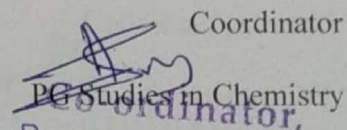
The PG Department of chemistry is conducting Remedial classes for M.Sc IIIrd Semester Students on 17.08.2015, 05.09.2015, 08.10.2015, 25.11.2015 and 05.12.2015. All the students are hereby informed to attend the Class.



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



IQAC, Co-ordinator
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-2015-2016
 Time table

Time/day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11.30 to 12.30	SNU 17.08.2015					
11.30 to 12.30						SDL 05.09.2015
11.30 to 12.30			SNU 25.11.2015			
11.30 to 12.30				SRK 08.10.2015		
11.30 to 12.30						SDL 05.12.2015

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

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

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

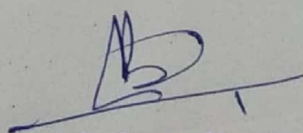
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S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Student List 2015-16
Subject: Inorganic Chemistry

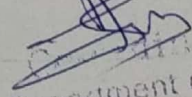
REMEDIAL CLASS

S.I No	Reg.No.	Name					
1	CH1412001	Afsheen Jagirdar	AJdar	AJdar	AJdar	AJdar	AJdar
2	CH1412003	Amit Darure	Ach	Ach	Ach	Ach	Ach
3	CH1412005	Gurushant	Gurushant	Gurushant	Gurushant	Gurushant	Gurushant
4	CH1412008	Laxman Ingale	Ingale	Ingale	Ingale	Ingale	Ingale
5	CH1412013	Nagappa Patil	NPatil	NPatil	NPatil	NPatil	NPatil
6	CH1412015	Anil kumar Patil	APatil	APatil	APatil	APatil	APatil
7	CH1412018	Rahul Chavan	RCChav	RCChav	RCChav	RCChav	RCChav
8	CH1412019	Rajagopal Kulkarni	RK	RK	RK	RK	RK
9	CH1412020	Rangappa Naik	RNaik	RNaik	RNaik	RNaik	RNaik
10	CH1412022	Sachin Chanal	Scchal	Scchal	Scchal	Scchal	Scchal

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