

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.

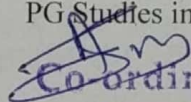
B.L.D.E Association's
S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Remedial Classes-2017-2018

NOTICE

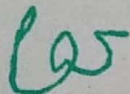
The PG Department of chemistry is conducting Remedial classes for M.Sc IIIrd Semester Students on 18.08.2017, 06.09.2017, 08.10.2017, 16.11.2017 and 10.12.2017. All the students are hereby informed to attend the Class.

Coordinator

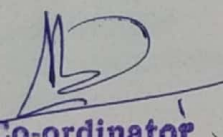
PG Studies in Chemistry


Co-ordinator,

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



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


IQAC, Co-ordinator

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

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 P.G. Dept of Chemistry
 Remedial Classes-2017-2018

Time Table

Time/day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11.30 to 12.30					SNU 18.08.2017	
11.30 to 12.30			SDL 06.09.2017			
11.30 to 12.30				PKM 08.10.2017		
11.30 to 12.30				SNU 16.11.2017		
11.30 to 12.30	SDL 11.12.2017					

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

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

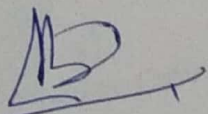
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Co-ordinator,
P. G. Department of Chemistry,
SB Arts & KCP Science College,
BIJAPUR - 586101

B.L.D.E Association's
S.B. Arts and K.C.P. Science College Bijapur
P.G. Dept of Chemistry
Student List 2017-18
Subject: Physical Chemistry
REMEDIAL CLASS

S.I No	Reg.No.	Name					
1	CH162002	Ameen G. Bagalkot	AGB	AGB	AGB	AGB	AGB
2	CH162003	Anand P Dhale	APD	APD	APD	APD	APD
3	CH162010	Ishwar S Patne	ISP	ISP	ISP	ISP	ISP
4	CH162011	Kumar. B. Patil	Kumar	Kumar	Kumar	Kumar	Kumar
5	CH162012	Mahammedali C. Hebbal	MH	MH	MH	MH	MH
6	CH162013	Mahesh S. Nidawani	MSN	MSN	MSN	MSN	MSN
7	CH162017	Mohammad Tasleem C. Chattarki	M.T.C	M.T.C	M.T.C	M.T.C	M.T.C
8	CH162023	Pradeepkumar N. Bhajantri	P	P	P	P	P
9	CH162024	Sachin C. Kolli	SC	SC	SC	SC	SC
10	CH162025	Sachin D. Chavan	SDC	SDC	SDC	SDC	SDC

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