



MKR GOVT. DEGREE COLLEGE
(Accredited with B++ Grade by NAAC, ISO 9001-2015)
Affiliated to Mahatma Gandhi University
DEVARAKONDA, NALGONDA, TELANGANA



A REPORT
ON
STUDY PROJECTS



CONDUCTED
BY
DEPARTMENT OF CHEMISTRY
2018-2023

Contents

<i>S.No</i>	<i>Academic Year</i>	<i>Semester</i>	<i>No of Students Benefitted</i>
1	2022-2023	Sem-V	4
2	2022-2023	Sem IV	7
3	2022-2023	Sem II	7
4	2021-2022	Sem-V	4
5	2021-2022	Sem III	9
6	2021-2022	Sem I	14
7	2020-2021	Sem IV	13
8	2020-2021	Sem II	7
9	2020-2021	Sem-V	8
10	2020-2021	Sem III	14
11	2020-2021	Sem I	12
12	2019-2020	Sem IV	14
13	2019-2020	Sem II	15
14	2019-2020	Sem-V	12
15	2019-2020	Sem-V	13
16	2019-2020	Sem III	11
17	2019-2020	Sem I	10
18	2018-2019	Sem VI	16
19	2018-2019	Sem-V	20
20	2018-2019	Sem IV	18
21	2018-2019	Sem-II	9

2022-23

Remedial coaching B2C 6/M sem-IV
Name of the Lecturer: Dr. M. Alively

Semester - IV sub: Chemistry

No. of classes taken: 04

S.NO.	H.T.NO.	student Name	01	02	03	04
1	2004402644 5001	M. Akhila	P	P	P	P
2	5003	A. Keerthi	A	P	P	P
3	5007	D. Srivani	P	P	A	P
4	5016	M. Bhagyalakshmi	A	A	P	P
5	5019	N. Saikumar	A	A	P	P
6	5024	P. Lavanya	A	P	A	P
7	5021	N. Shiva	A	A	P	P

Date

TOPICS

- 24.04.23) 1) CFT theory, Hemoglobin-chlorophyll
- 25.04.23) 2) structure determination glucose & osazone formation and molar rotation
- 26.04.23) 3) First order & zero order rate constant equation
- 27.04.23) 4) Colloids & their properties. p.n.s. type semis-conductors
- 28.04.23) Michael rxn, Michael rxn & Knoevenagel rxn
M. Alively
(Dr. M. Alively)

2022-23

Remedial coaching B2C 6/M sem-IV
Semester: IV, subject: Chemistry

No. of classes taken: 04

S.No	H.T. NO	student Name	01	02	03	04
1	2004402644 5009	J. Prem Kumar	P	P	P	P
2	5021	N. Shiva	P	A	P	A
3	5024	P. Lavanya	P	P	A	A
4	5027	R. Bharathi	A	A	P	P

TOPICS

Date

- 17.04.23) 1) Types of molecular spectra, Finger print region in IR spectra. Types of peaks in MS
- 18.04.23) 2) What is TLC & Rf value, Application of column chromatography & HPLC
- 19.04.23) 3) ^1H NMR spectra of ethyl bromide, ethyl acetate, Acetophenone, tribromoethane
- 20.04.23) 4) Auxochrome, chromophore, bathochromic shift & hypsochromic shift.

M. Alively

Dr. M. Alively

Asst. professor
of chemistryCh. Ramakrishna
Principal
MKR Govt. Degree College
DEVARAKONDA-508248

Name of the lecturer: Dr. M. Alively

Semester - V Sub: Chemistry

No. of classes taken: 04 Group: B2C Tafethy

Signature of the lecturer: M. Alively

SNO	H.T.NO	Student Name	01	02	03	04
1	19044026945003	Gn. Venkatesh	A	P	P	P
2	5008	M. Kotesk	P	A	P	P
3	5007	M. Praveen	A	P	P	P
4	5016	V. Swami	P	P	P	A

Date TOPICS

TOPICS

- 27.08.22 1) pharmacy, pharmacology, pharmacokinetics
2) classification of drugs, ADME, Inhibition
- 28.08.22 1) synthesis of Dapsone, Isoniazide, Cyclophosphamide, AZT
2) anesthetic, neurotransmitter, chromatography
- 29.08.22 write about water soluble vitamins
water non-soluble vitamins, HPLC chromatography
- 30.08.22 synthesis of Dopamine, Serotonin, levodopa,
atenolol + carbimazole. Spectroscopy

Chakravarthy
Principal
MKR Govt. Degree College
DEVARAKONDA-508248

M. Alively
(Dr. M. Alively)
Asst. Professor of
Chemistry

Name of the lecturer: Dr. M. Alively

Semester - II Sub: Chemistry

No. of classes taken: 05

Signature of the lecturer: M. Alively

S.NO	H.T.NO	Student Name	01	02	03	04	05
1	210440264451001	A. Sriman	P	A	P	P	P
2	1003	A. Arun	A	P	P	P	P
3	1010	Ch. Priyanka	P	P	A	A	P
4	1013	Ch. Anjali	P	P	P	A	P
5	1014	Ch. Shilpa	P	P	P	P	P
6	1027	M. Rajeshvaran	A	A	A	P	P
7	1028	Md. Varied Begun	A	A	A	P	A

TOPICS

- 24.04.23 1) oxides classification & Inter halogen compound
- 25.04.23 2) zero group elements: XeF_2 , XeF_4 , XeF_6 , XeO_3 , XeO_4
- 26.04.23 3) SNI & SN2 rxns
- 27.04.23 4) Nernst equation, calomel electrode & hydrogen electrode.
- 28.04.23 5) R,S configuration, co-precipitation & post precipitation, RLVP

Chakravarthy
Principal
MKR Govt. Degree College
DEVARAKONDA-508248

M. Alively
Dr. M. Alively
Asst. Professor of
Chemistry
MKR GDC Devarakonda

Name of the lecturer: Dr. M. A. Ivelly

Semester - I Sub: Chemistry

No. of classes taken: 04 Group: B2C6A

Signature of the lecturer: M. Alureh

S.NO	H.T.NO	Student's Name	01	02	03	04
1	21004402644 51001	A. Sriman	A	P	P	P
2	1002	A. Arun	P	A	P	P
3	1008	B. Nagaraj	P	P	A	P
4	1009	Ch. Anusha	P	P	P	A
5	1011	Ch. Prasantha Kumar	P	P	A	P
6	1012	Ch. Anjali	P	A	P	P
7	1013	Ch. Shilpa	A	P	P	P
8	1014	E. Adeeshwar	P	A	P	P
9	1015	E. Chanti	P	P	A	P
10	1016	E. Jagadesh	P	A	P	P
11	1017	J. Praveenath	P	P	P	P
12	1020	K. Shiva	P	A	P	P
13	1026	M. Rajesh Varma	A	P	P	P
14	1028	Md. Vaheed	P	P	A	P

Topics:-

- 11.07.22 1) Chemical bonding, p-block
2) p-block elements.
- 12.07.22 1) structural theory in organic chemistry, Alkyl hydrocarbons, Aromatic hydrocarbons.
- 13.07.22 1) Atomic structure, Gaseous state, Liquid state
2) solutions.
- 14.07.22 1) Isomerism, solid state chemistry.

Name of the lecturer: Dr. M. A. Ivelly

Semester - III, Sub: Chemistry

No. of classes taken: 04 Group: B2C6B

Signature of the lecturer: M. Alureh

S.NO	H.T.NO	Student's Name	01	02	03	04
1	20044026445001	M. Akhila	A	P	P	P
2	5002	A. Balaji	P	A	P	P
3	5003	A. Keerthi	A	P	P	P
4	5009	J. Prem Kumar	P	A	P	P
5	5013	K. Mounika	P	P	A	P
6	5016	M. Bhagyalaxmi	P	P	P	A
7	5019	N. Saikumar	P	P	P	A
8	5021	N. Shiva	P	P	A	P
9	5034	V. Vallya	P	P	P	A

Topics

- 01.07.22 1) Chemistry of Lanthanides & Coordination compounds - I
Valency Bond Theory, examples.
- 02.07.22 1) Metal carbonyls - EAN rule, 18e rule
2) Carboxylic acids & derivatives
- 04.07.22 1) Nitrohydrocarbons, cyanides & Isocyanide
Thermodynamics - I & II.
- 05.07.22 Evaluation of Analytical Data, Carbanion - I
Phase rule.

Name of the lecturer :- Dr. M. Alively
 semester - V Sub: Chemistry P-V
 No. of classes taken = 04 Group: MPC, B2C
 signature of the lecturer - M. Alively

S.NO	H.T. NO	student name	Attendance				
			01	02	03	04	05
1	18044026441004	K. Ajith	A	P	P	P	P
2	1006	N. kondalu	P	A	P	P	P
3	18044026445005	K. Bhuvaneshwar	P	P	A	P	P
4	5007	K. soudeep	P	P	P	A	P
5	5016	V. Shivani	P	P	A	P	P
6	SS11	N. Mounika	P	A	P	P	P
7	SS10	R. Geetha	A	P	P	P	P
8	SS11	R. G. Krishna	P	A	P	P	P
			P	P	P	A	P

Topics

- 1) p-block Elements - II: oxides, oxy acids, Halogens
- 2) Chemistry of zero group & d-block elements
- 1) Halogen compounds, Hydroxy compounds & ethers
- 2) Carbonyl compounds - oxidation & reduction
- 1) Electrochemistry - Theory of Electrochemistry
- 2) Electrolytic & Galvanic cells.
- 1) Theories of quantitative analysis
- 2) Stereoisomerism, Dilute solutions & colligative properties

Name of the lecturer: Dr. M. Alively
 semester - ~~IV~~ IV Sub: Chemistry P-VI
 No. of classes taken = 04 Group: MPC, B2C
 signature of the lecturer: M. Alively

S.NO	H.T. NO	Student name	Attendance			
			01	02	03	04
1	18044026441004	K. Ajith	A	P	P	P
2	1006	N. Kondalu	P	A	P	P
3	18044026445003	A. Shivani	P	P	A	P
4	1604402644SS11	N. Mounika	P	P	P	A
5	18044026445007	N. Ramu	P	P	A	P

TOPICS

- 1) coordination compounds - II, CFT Theory.
- 2) Bio Inorganic chemistry
- 1) carbohydrates, amino acids & proteins,
- 2) Heterocyclic compounds: - Pyrrole, Furan & Thiophene
- 1) chemical kinetics: zero order, 1st, 2nd & 3rd
- 2) photochemistry: laws of photochemistry
- 1) Theories of bonding in metals
- 2) carbanions, colloids & surface chemistry.

2020-21

24

Name of the lecturer: - Dr. M. Alively
 Semester - I Sub: Chemistry
 No. of classes taken: 04

signature of the lecturer: M. Alively

S.NO	H.T. NO	Student Name	Attendance			
			01	02	03	04
1	20044026445001	M. Akhila	A	P	P	P
2	5002	A. Balaji	P	A	P	P
3	5003	A. Keerthi	P	P	A	P
4	5004	B. Naveen	P	P	A	P
5	5007	D. Srivani	P	A	P	P
6	5009	J. Premkumar	P	P	P	P
7	5010	Md. Vahed	P	P	A	P
8	5021	N. Shiva	P	P	P	P
9	5024	P. Lavanya	P	P	P	P
10	5027	R. Akhila	A	P	P	P
11	5025	R. Bharath	P	P	A	P
12	5026	R. Anji	A	P	P	P

Topics

- 1) Chemical bonding
- 2) p-Block elements
- 3) Structural theory in organic chemistry
- 4) Alyclic hydrocarbons, Aromatic hydrocarbons
- 1) Atomic structure & Gaseous state
- 2) Liquid state solutions
- 1) Qualitative Analysis,
- 2) Isomerism, solid state chemistry

2020-21

25

Name of the Lecturer: Dr. M. Alively
 Semester - III Sub: Chemistry
 No. of classes taken = 04.

signature of the lecturer: M. Alively

S.NO	H.T. NO	Student Name	Attendance			
			01	02	03	04
1	20044026445001	A. Balaji	P	P	A	P
2	5003	A. Keerthi	P	A	P	P
3	5009	J. Premkumar	P	P	A	P
4	5013	K. Moonika	P	P	P	A
5	5024	P. Lavanya	P	P	A	P
6	5026	R. Anji	P	A	P	P
7	5014	V. Vajya	P	P	P	P
8	190044026445001	A. Lingaiah	A	P	P	P
9	5003	G. Venkatesh	P	A	P	P
10	5007	M. Praveen	P	P	A	P
11	5008	M. Kotesk	P	P	P	A
12	5014	T. Vamsi Kumar	P	P	A	P
13	5015	V. Sandeep Kumar	P	A	P	P
14	5019	K. Shirisha	A	A	P	P

Topics: - 1)

- 1) chemistry of f-block elements
- 2) coordination compounds - I, metal carbonyls
- 1) Carboxylic acids & derivatives
- 2) Nitrohydrocarbons, cyanides & Isothiocyanides
- 1) Thermodynamics I & II
- 1) Evaluation of analytical data
- 2) Colloids - I, Phase rule.

Name of the lecturer: Mr. P. Edukondalu
 semester - II sub: Chemistry
 No. of classes taken = 04 group: BZCTm mbBC

SNo	H.T. NO	Student Name	Attendance			
			01	02	03	04
1	19044026445001	A. Lingaiah	A	P	P	P
2	5003	G. Venkatesh	P	P	A	P
3	5005	K. Jyothi	P	P	P	A
4	5006	M. Usharani	P	P	P	P
5	5007	M. Praveen	A	P	P	P
6	5008	M. Kotesesh	P	A	P	P
7	5009	N. Mamatha	P	P	A	P
8	5014	T. Vamsi Kumar	P	P	P	P
11	5017	V. Naveen	P	A	P	P
12	5501	A. Dhana Koti	P	P	P	P
13	5502	B. Thirupathak	A	P	P	P
14	5511	R. Saritha	P	P	A	P
15	5512	R. Srikanth	P	P	P	A

Topics

- 1) oxides & oxy acids, Interhalogens & Polyhalides
chemistry of d & f-block elements
- 2) Halogen compounds, Alcohols & Carbonyl compounds
- 3) Electrochemistry
- 4) precipitation, CO₂ post precipitation, R, S-configuration & D-L configuration

Name of the lecturer: Mr. P. Edukondalu
 semester - IV sub: Chemistry
 No. of classes taken. group: BZCTm mbBC
 MPC

SNo	H.T. NO	Student Name	Attendance			
			01	02	03	04
1	18044026445505	G. Dinesh Kumar	A	P	P	P
2	5508	M. Nagaraju	P	P	A	P
3	5509	P. Sandhya	P	P	P	A
4	5510	R. Greetha	P	A	P	P
5	5513	R. Sindhu	P	P	P	P
6	18044026445501	A. Swathi	A	P	P	P
7	8002	A. Ramesh	P	P	A	P
8	5511	R. G. Krishna	P	P	P	A
9	18044026441002	B. Sunitha	P	P	P	P
10	1003	Ch. Sothi	A	P	A	P
11	1004	K. Ajith	P	P	P	P
12	1006	N. Kondalu	P	A	P	P
13	1007	P. Santhosha	P	P	A	P
	1009	R. Srikinder	P	P	P	A

Topics

- 1) n-type and p-type semiconductors
- 2) Mannich reaction, sols & emulsions classification
- 3) Adsorption - types of adsorption
- 4) Quantum efficiency, rate of rxn
- 5) Diels Alder rxn, Isoelectric point

Name of the lecturer

Semester - V Sub: Chemistry, P-V

No. of classes = 04. GROUP: MPC, B2C, Mb2C

Chemistry - V

S.No	H.T. NO	Student's Name	Attendance			
			Day-1	D-2	D-3	D-4
1	17044026441 501	B. Ashok	A	A	P	P
2	508	K. Shirisha	P	P	P	P
3	518	T. Vijaya	P	A	P	P
4	521	T. Hanumanth	P	P	P	P
5	1704-4026-451 004	A. Sandhyarani	P	P	A	P
6	004	B. Saikumar	P	P	P	P
7	006	D. Sathar	P	A	P	P
8	009	G. Madhu	P	P	P	P
9	013	L. Praphu	P	P	A	P
10	029	Y. Kavitha	P	P	P	P
11	1704-4026-445 501	B. Mothilal	P	A	P	P
12	504	B. Mamatha	P	A	P	P
13	529	M. Chandrakala	P	P	P	A
			A	P	P	P

TOPICS

- 1) coordination compounds
- 2) Boranes - Wadley role, Amines & cyanides
- 3) chemical kinetics
- 4) Molecular spectroscopy

Name of the lecturer - P. Edukondalu

Semester - V, Sub: Chemistry, P-VI

No. of classes = 04. GROUPS: B2C, Mb2C, MPC

Instru-mental methods of Analysis

S.No	H.T. NO	Student's Name	Attendance			
			D-1	D2	03	04
1	1704-4026-445 502	B. Anjanely	P	P	P	A
	504	B. Mamatha	P	A	P	P
	508	C. Lavani	P	P	P	P
	528	M. Ganesh	A	P	P	P
	529	M. Chandrakala	P	P	P	P
	546	T. Swamy	P	P	A	P
	17044026 001	A. Sandhyarani	P	P	P	A
	005	D. Priyanka	P	P	A	P
	011	K. Pavan	P	P	P	P
	1704-4026- 441	R. Anil	A	P	P	P
	518	T. Vijaya	P	P	A	P
	519	T. Ramesh	P	P	P	P

TOPICS

- Chromatography - I
- Chromatography - II
- Colorimetry + Spectrometry
- Electro Analytical methods

Name of the Lecturer: P. Edukondalu
Semester - I, sub: Chemistry
No. of classes: 04.

S-NO	H-T-NO	Student Name	GROUP	Attendance			
				1	2	3	4
1	19044026445002	G. Venkatesh	B2C Elm	P	P	A	P
2	5007	M. Praveen	B2C Elm	P	P	P	P
3	5009	N. Mamatha	B2C Elm	A	A	A	P
4	5014	T. Vamshikumar	B2C Elm	P	A	P	P
5	5015	V. Sandeep Kumar	B2C Elm	A	A	P	P
6	5017	V. Naveen	B2C Elm	P	P	P	P
7	19044026445502	B. Thirupathaiiah	B2C T/m	A	P	P	P
8	5507	L. Sandhya	B2C T/m	A	P	A	A
9	5511	R. Saritha	B2C T/m	A	P	P	P
10	5512	R. Srikanth	B2C T/m	P	P	P	P

TOPICS

- 10-2-20 1) Molecular orbital theory, Diborane, Silicones.
- 2) Hyper conjugation, Mesomeric effect, Hyper conjugation
- 11-2-20 3) Markownikoff rule, Anti-Markownikoff rule
Dimer Alder reaction, catalytic redn of Alkynes
- 12-2-20 4) Nitration of benzene, Friedel Craft Alkylation
5) Crompton effect, de Broglie's hypothesis, Joule Thomson effect,
- 13-2-20 6) Common ion effect, solubility product. Baeyer's theory
7) Nomenclature, Bragg's method

Name of the Lecturer: P. Edukondalu
Semester - III, Group: MPC, BZC, MEC
No. of classes = 04

S-NO	H-T-NO	Student Name	Attendance			
			1	2	3	4
1	18044026441004	K. Ajith	P	A	P	P
2	18044026441006	N. Kondalu	P	P	A	P
3	18044026445002	A. Shivani	A	P	P	P
4	5005	K. Buvaneshwar	P	P	P	P
5	5007	K. Sandeep	A	P	P	P
6	5016	V. Shivani	P	P	A	P
7	5018	L. Shobha	P	A	P	P
8	18044026445505	G. Dinesh Kumar	P	P	P	P
9	5508	M. Nagoraju	P	A	P	A
10	5511	R. G. Krishna	P	P	P	A
11	180440264457001	A. Swathi	P	A	P	P

TOPICS

- 14-02-20 1) Lanthanide contraction, VBT Theory, Jønesism in coordination compounds.
- 15-02-20 1) Structure of metal carbonyls
2) 18e rule, Esterification & Ester hydrolysis.
- 17-02-20 1) Net reaction, Hoffmann bromamide reaction
2) Shimada's reaction, Sandmeyer & Matteson's reaction
- 18-02-20 1) Thermodynamic, First law $q = \Delta H - \Delta G$ (and cycle, Kirchoff's equation.
2) Joule Thompson effect, Gibb's Helmholtz eqn.

Sr No	H.T. NO	Student Name	Topic	Sr No	1604-U026-445	Student of Name	Topic	Sign
	16044026441501	A. Navaneetha	Inorganic chemistry	1	" 502	A. sandya	Inorganic Chem	A. sandya
	503	B. Naresh	"	2	" 503	A. sandya	"	A. sandya
	509	K. Madhu	"	3	" 507	B. Laxmi charan	"	B. Laxmi
	510	K. Rajashekhar	"	4	" 508	B. Hari Krishna	"	B. Hari
	511	K. Ganesh	"	5	" 513	D. Mounika	"	D. Mounika
	512	K. Hanumantho	"	6	" 514	D. Anjaneyulu	Organic chem	D. Anjaneyulu
	524	N. Ashwini	"	7	" 528	K. shushela	"	K. shushela
	16044026445501	A. Sandhya	organic Chemistry	8	" 531	K. preethi	"	K. preethi
	505	A. Sandhya	"	9	" 536	M. Manjula	"	M. Manjula
	507	B. Laxmi charan	"	10	" 543	N. Rekha	"	N. Rekha
	513	D. Mounika	"		1604-U026-457			
	514	D. Anjaneyulu	"	11	" 003	A. Anil	physical Chem	A. Anil
	522	J. Saikumar	physical Chemistry	12	" 006	Ch. Ramesh	"	Ch. Ramesh
	527	K. Shelchey	"	13	" 007	G. Laxmi prasanna	"	G. Laxmi prasanna
	528	Susheelo	"	14	" 014	K. Ramanjaneyulu	"	K. Ramanjaneyulu
	531	K. Preethi	"	15	" 016	N. Swetha	General Chem	N. Swetha
	535	M. Anjali	general Chemistry	16	" 022	R. Hari	"	R. Hari
	537	M. Parijatha	"					
	543	M. Rekha	"					
	548	P. Manga	"					

No Sp

S.No	ROLL NO.	Name of the student	Topic	Signature
1.	18044026441004	K. Ajith	Inorganic	K. Ajith
2.	" " 1009	N. Kondalu	"	N. Kondalu
3.	18044026445503	G. Sravani	"	G. Sravani
4.	" 504	G. Nagesh	Organic Chem	G. Nagesh
5.	" 506	G. prasanna	"	G. prasanna
6.	" 509	p. sandya	"	p. sandya
7.	" 510	R. Geetha	Physical Chem	R. Geetha
8.	" 512	R. Mothilal	"	R. Mothilal
9.	" 513	R. Sindhu	"	R. Sindhu

Mr. Sp

S. NO.	ROLL NO	Name of the student	Father Name	Signature
1.	1704-4026-441501	B. Ashok	IV-SEM.	B. Ashok
2.	" 506	K. Ramakrishna		K. Ramakrishna
3.	" 508	K. Shireesha	Inorganic	K. Shireesha
4.	" 509	M. Hari babu	"	M. Hari babu
5.	" 511	M. Anjali	"	M. Anjali
6.	" 514	N. Thirupathi	Organic Chem	N. Thirupathi
7.	" 516	p. shivalakala	"	p. shivalakala
8.	" 517	R. Anil	"	R. Anil
9.	" 518	T. Vijaya	"	T. Vijaya
10.	" 519	T. Ramesh	General Chem	T. Ramesh
11.	" 521	V. Hanumantho.	"	V. Hanumantho.
	1704-4026-4445			
1.	" 501	B. Mothilal	IV SEM.	B. Mothilal
2.	" 502	B. Anjaneyulu		B. Anjaneyulu
3.	" 503	B. Naveen	Inorganic	B. Naveen
4.	" 504	B. Maratha	"	B. Maratha
5.	" 505	B. Suresh	"	B. Suresh
6.	" 506	B. Shiva Ganesh	"	B. Shiva Ganesh
7.	" 507	B. Anitha	Organic	B. Anitha
8.	" 508	Ch. Lavanya	"	Ch. Lavanya
9.	" 514	Sk. Heena	"	Sk. Heena
10.	" 515	J. Mallesh	"	J. Mallesh
11.	" 521	K. Mandini	"	K. Mandini
12.	" 525	K. Anjaneyulu	General Chem	K. Anjaneyulu
13.	" 527	M. Divya	"	M. Divya
14.	" 528	m. Ganesh	"	m. Ganesh
15.	" 529	M. Chandrakab	"	M. Chandrakab
16.	" 532	N. Sathyanarayana	"	N. Sathyanarayana
17.	" 533	N. Ganesh	physical Chem	N. Ganesh
18.	" 534	N. Ganesh	"	N. Ganesh