# Department of Chemistry

#### INTRODUCTION

The department was established in the year 1997, Science then, the department of chemistry is offering Six courses of which two are conventional course (*B.Sc, M.P.C & B.Z.C*) and the others are restructure course (*B.Sc, M.B.C, M.Z.C, Bt.Z.C, Bt.B.C*). All the courses are offered in English medium and (*B.Sc B.Z.C*) offering both media. The department has one sanctioned post for teaching and one Lab assistant. The department has been well equipped with essential apparatus and equipment. At present the department has three separate Laboratories.

#### HISTORY OF THE DEPARTMENT

At the time of establish the department was first established in the old building with one laboratory. In the Jan 2006 the department was shifted to new building which consists of two separate laboratories. In 2018 the department has shifted to this new building i.e. Men's Education hub.

The Alumni has distinguished themselves in academic and administrative areas in the state and occupying of responsibility establishment and in academic institutions. Every year pass percentage of our college is increasing. 25 students were admitted in to M.Sc Chemistry in various Universities and earned reputation as Researchers and Lecturers.

The department arranged educational tour for students to enhance knowledge among the students by visiting the surroundings like **Centre for Cellular and Molecular Biology CCMB** and **IICT** Hyderabad.

In addition to this the department has separate library. The department has well established and have well equipped with instruments like UV-Visible Spectrophotometer, Conductometer, pH meter, potentiometer and Rotavapour etc.

The succession of Head of the Department:

Sl.No	Name of the In-charge	Period
1.	Sri. P. INNAIAH	July 2001 – July 2005
2.	Dr. M. SUDAKAR REDDY	Aug 2005 – April 2010
3.	Dr. P. RAJENDER REDDY	May 2010 – June 2011
4.	Smt. AYESHA SULTHANA	July 2011 – June 2013
5.	Sri. ABDUL AZIZ	July 2013 – june2016
6.	Smt. N. SRAVANI	July 2016 – June 2018
7.	Dr. P. ADAVI RAJU	July 2018 to Till date

#### **COURSES OFFERED**

- ❖ The department of chemistry offers six courses
- ❖ Chemistry with combination of Mathematics & Physics (M.P.C.) and Botany & Zoology (B.Z.C.)
- ❖ These are traditional courses and are offered since the establishment of the department. It is the demanded Subject of the science department in the college.
- ❖ Chemistry with combination of Microbiology and Botany (M.B.C.), Microbiology and Zoology (M.Z.C.) Biotechnology and Zoology (Bt.Z.C.), Biotechnology and Botany (Bt.B.C.).
- ❖ These are the restructured courses and are the course which is designed to meet the latest developing fields in the science.

# B. Sc. CHEMISTRY SYLLABUS UNDER CBCS SCHEME SEMESTER WISE COURSES (THEORY AND PRACTICAL)

SEMESTER	INIESTER WISE COURSES (THEORY AND PRA	INSTRUC		
SEMESTER	PAPER/COURSE (THEORY & PRACTICAL)	TIONS Hrs/week	MARKS	CREDITS
I -SEM	Paper-I Chemical Bonding, P-Block Elements, Structural Theory in Organic Chemistry, Acyclic hydrocarbons, Aromatic hydrocarbons, Atomic structure and elementary quantum mechanics, Gaseous state, Liquid state and Solutions, General principles of Inorganic Quantitative Analysis, Isomerism, Solid state Chemistry	4	100	3
	Quantitative Analysis –Semi micro analysis of Mixtures	2	50	1
II -SEM	Paper-II P-block Elements-II, Zero group elements, d- Block elements, Halogen compounds, Alchols, Phenols, Ethers, Carbonyl compounds, Electrochemistry, Theory of Quantitative analysis, stereo isomerism, Dilute solutions and colligative properties	4	100	3
	Quantitative analysis acid –base titration, Redox titration, Complexometric titration	2	50	1
III -SEM	Paper-III Chemistry of F-Block elements, Coordination Compounds-I, Metal carbonyls and Organic Chemistry, Carboxylic acids and derivatives, Nitrohydrocarbons, Amines, Cyanides& Isocyanides, Thermodynamics-I &II, Evaluation of Analytical data, Carbanioncy -I, Phase Rule	4	100	3
	Practical:Synthesis of Organic compounds, Microwave assisted synthesis of Asprin	2	50	1
IV –SEM	Paper-IV Coordination Compounds-II, Bioinorganic chemistry, Carbohydrades, Aminoacids and proteins, Heterocyclic compounds, Chemical kinetics, Photochemistry, Theory of bonding in metals, Carbenion-II, Colloidal & Surface chemistry	4	100	3
	Practical: Qualitative Analysis of Organic Compounds	2	50	1
V -SEM	Paper-V Coordination compounds-II, Boranes and Carboranes, Amines, Cyanides & Isocyanides, Heterocycluic compounds, Chemical kinetics, Molecular spectroscopy (MW,IR,ES), Photochemistry	3	100	2
	Practical: Synthesis of Organic compounds, Thin layer Chromatography	2	50	1
	Paper-VI Inorganic reaction mechanisms, Bioinorganic chemistry, Hard and Soft acids bases(HSAB), Carbohydrades, Aminoacids and Protiens, Thermodynamics-I,Proton magnetic resonance spectroscopy,Mass spectroscopy,Thermodynamics-II	3	100	2
VI -SEM	Quantitative Analysis, Spectral analysis	2	50	1
	Paper-VIII Elective-A Introduction and Terminology, Enzymes and Receptors, Synthesis and Therapeutic Activity of Drugs, Molecular Messengers and Health Promoting Drugs	3	100	2
	Practical: Kinetics, Electrochemistry, Potentiometry, pH metry, Conductometry	2	50	1

# **DETAILS OF THE STAFF:**

The department has TWO teaching staff members and one non teaching staff member.

# TEACHING STAFF:

S.No	Name of the faculty	Designation	Qualification	Experience	Age	Gender
1.	Dr. P. Adavi Raju	In charge,	M.Sc,	19 years	44	Male
		Asst. professor	Ph. D			
2.	Sri.N. Sai kondalu	Asst. Professor	M.Sc,	11 years	35	Male
			B. Ed			



# TIME TABLE

# GOVERNMENT DEGREE COLLEGE GAJWEL, SIDDIPET: DIST

		CI	HEMISTRY DEP	ARTMEN	T TIME TA	ABLE			
	10.00- 11.00	11.00- 12.00	12.00-1.00	1 .00- 1-30	1.30-2.30	2-30-3-30	3.30-4.30		
	CHE-V				CHE -I MPC (P) 1.30 -4.30 (PAR)				
MON	(PAR)	CHE-I (PAR)	CHE-II (TS)			CHE -II BZC,	MBC(P) 2.30 - 4.30(TS)		
TUE			CHE-I (PAR)		CHE- II(TS)	CHE-VI (TS)			
WED	CHE-VI (TS)		CHE-I (PAR)	Lı		CHE -I BZC, MBC (P) 2.00 - 4.30 (TS)			
	CHE-II (PAI 10.00-12.00 (	R) MPC & MBC (TS)		u n	CHE-I(P) (BZC & MBC)1.30 -4.30 (PAR)				
THU	CHE-I (PAR)	CHE-V(PAR)		c h		CHE-VI(P) MPC, (TS)	MBC,BZC2.30-4.30		
FRI	CHE-II (TS)				CHE-VI (TS)				
SAT	CHE-II (TS)	CHE-V (PAR)							

#### STUDENTS PROFILE:

The department admits maximum 60 students in each academic year under each course (M.P.C, B.Z.C, M.B.C, M.Z.C, Bt.B.C, Bt.Z.C) B.Z.C group started from 2016

The intake of the students into I yr for the last 5 year is as follows:

Sl.	Academic	(M.	P.C)	(M.)	B.C)	(M.:	Z.C)	(B.Z		(B.Z		Bt.	B.C	Bt.	Z.C	ВС	CCs	Grand Total
No	year	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1.	2014-15	25	20	17	13	-	-	-	-	-	-	-	-	-	-	-	1	75
2.	2015-16	22	25	25	23	-	-	-	-		-	-	-	-	-	-	1	95
3.	2016-17	09	20	04	20	1	-	12	9	-	-	-	-	-	-	-	1	74
4.	2017-18	24	-	27		1	ı	27	1	-	1	-	1	-	1	4	1	78
5.	2018-19	23	-	17	-	5	ı	13	ı	9	1	6	ı	5	1	-	1	78

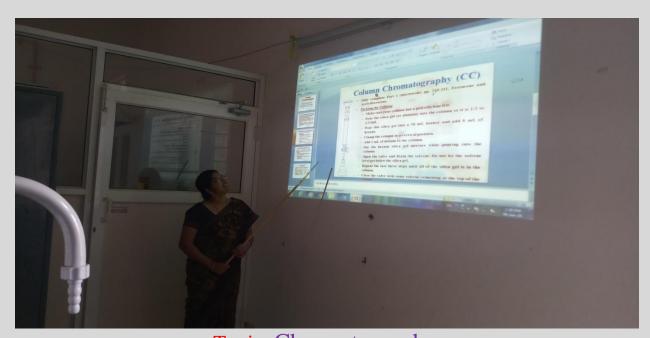
Strength particulars of the students in present academic year (2019-20) only Mens

Sl.No	Class	(M.P.C)	(M.B.C)	(M.Z.C)	(B.Z.C) E/M	(B.Z.C) T/M	Bt.B.C	Bt.Z.C	Grand Total
1	B.Sc-I	17	07		14				38
1.		17				-	-	-	
2.	B.Sc-II	19	12	02	16	-	03	04	56
3.	B.Sc-III	18	18		16	-	-	-	52

# **EXTENTION LECTURES**



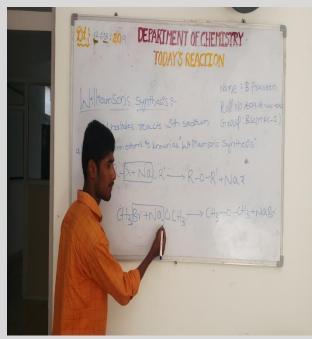
Topic: IR spectroscopy
Name: Dr. V. Ravinder Reddy, Asst. Professor of Chemistry
Govt.Degree College, (W) Gajwel



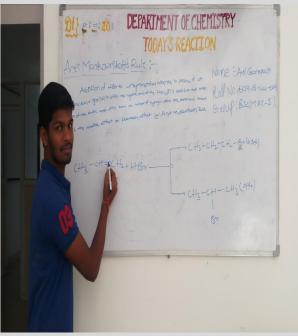
Topic: Chromatography
Name: Shaik. Kajabee, Asst. Professor of Chemistry
Govt. Degree College, Yellareddy

# **TODAY'S REACTION**

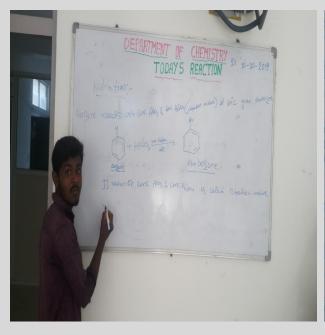
# (Daily one Reaction on Notice board)



Topic: Ethers(Williamson's Synthesis)
Name: B.Praveen (M.P.C II Year)

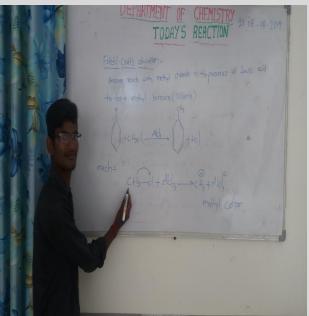


Topic: Phenols (Reamertiemann reaction)
Name: G.Anil Kumar (M.P.C II Year)



**Topic: Nitration Reaction** 

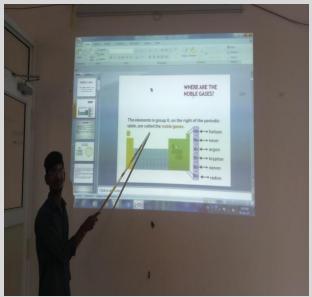
Name: B.Praveen(B.Z.C First Year)

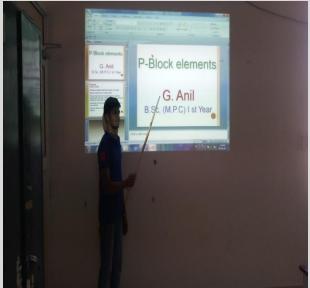


**Topic: Friedal craft reaction** 

Name: J. Naresh (M.P.C First Year)

### STUDENT SEMINARS





**Topic: Noble Gases** 

Name: J.Naresh (M.P.C I Year)

**Topic: P- Block Elements** 

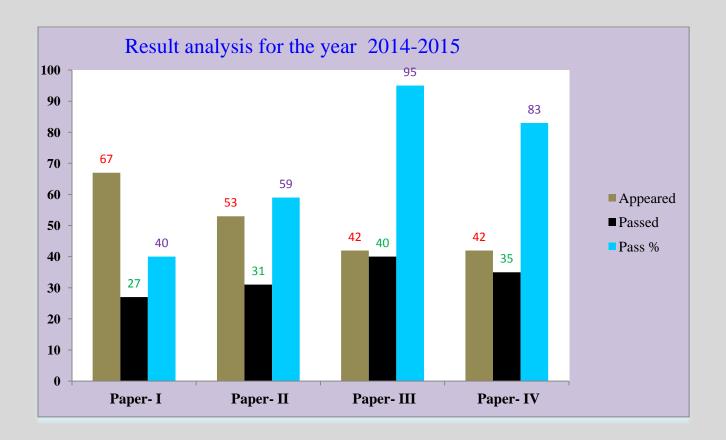
Name: G. Anil Kumar (M.P.C II Year)

# **RESULT ANALYSIS:**

The analysis of the student's performance in the annual examination for the Last five years is given below:

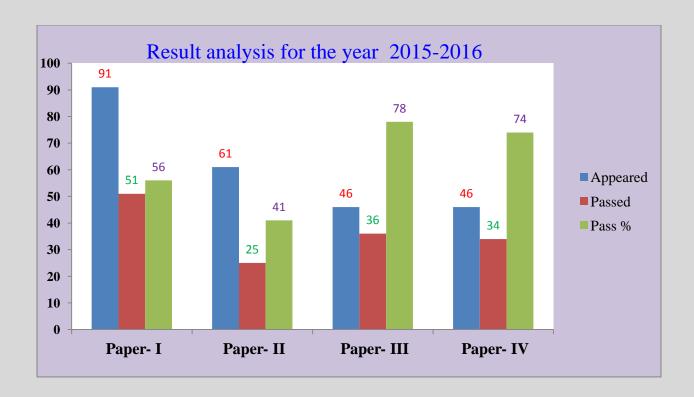
#### **RESULT ANALYSIS FOR THE ACADEMIC YEAR 2014-2015**

Sl.No	Class	appeared	passed	Pass %
1.	B.Sc-I (Paper- I)	67	27	40
2.	B.Sc-II (Paper- II)	53	31	59
3.	B.Sc-III (Paper- III)	42	40	95
4.	B.Sc-III (Paper- IV)	42	35	83



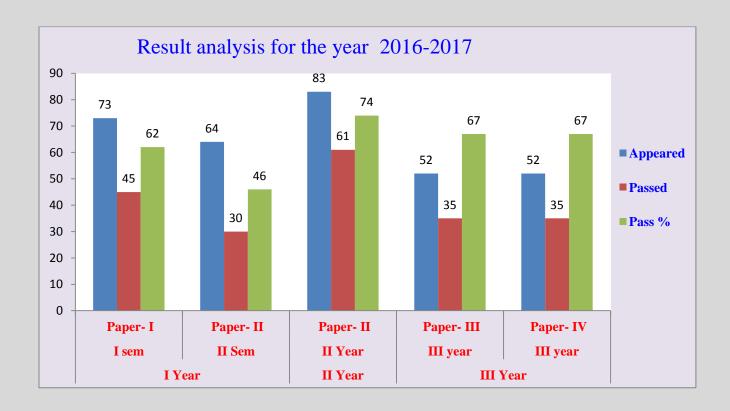
#### **RESULT ANALYSIS FOR THE ACADEMIC YEAR 2015-2016**

Sl.No	Class	appeared	passed	Pass %
1.	B.Sc-I (Paper- I)	91	51	56
2.	B.Sc-II (Paper- II)	61	25	41
3.	B.Sc-III (Paper- III)	46	36	78
4.	B.Sc-III (Paper- IV)	46	34	74



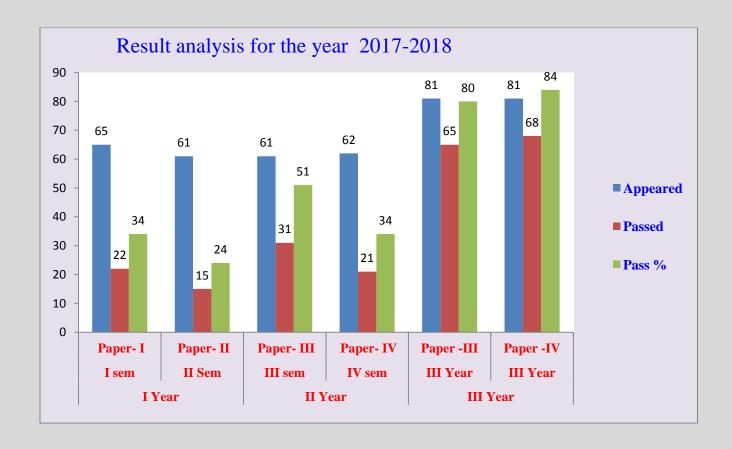
#### **RESULT ANALYSIS FOR THE ACADEMIC YEAR 2016-2017**

Sl.No	Class	Semester & Paper	appeared	passed	Pass %
1.	B.Sc-I	Semester –I (Paper- I)	73	45	62
		Semester –II (Paper-II)	64	30	46
2.	B.Sc-II	YWS (Paper-II)	83	61	74
3.	B.Sc-III	YWS (Paper-III)	52	35	67
		YWS (Paper- IV)	52	35	67



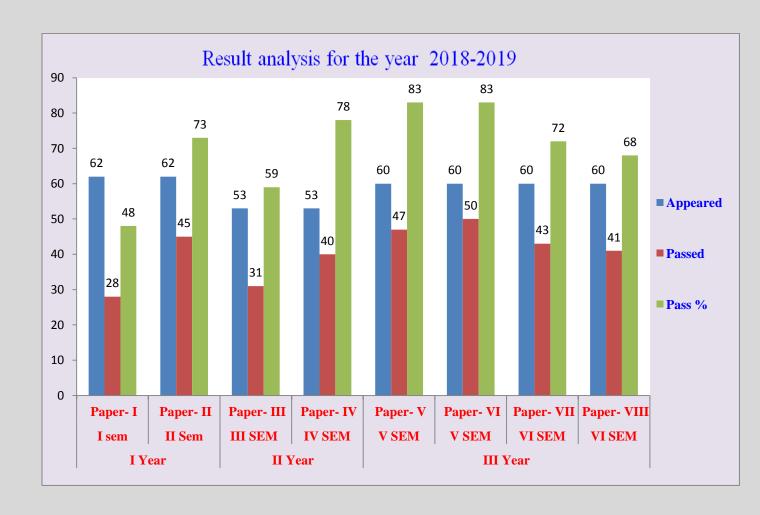
#### **RESULT ANALYSIS FOR THE ACADEMIC YEAR 2017-2018**

Sl.No	Class	Semester & Paper	appeared	passed	pass%
1.	B.Sc-I	Semester –I (Paper- I)	65	22	34
		Semester –II (Paper-II)	61	15	24
2.	B.Sc-II	Semester –III (Paper- III	61	31	51
		Semester –IV (Paper-IV)	62	21	34
3.	B.Sc-III	YWS (Paper- III)	81	65	80
		YWS (Paper-IV)	81	65	84



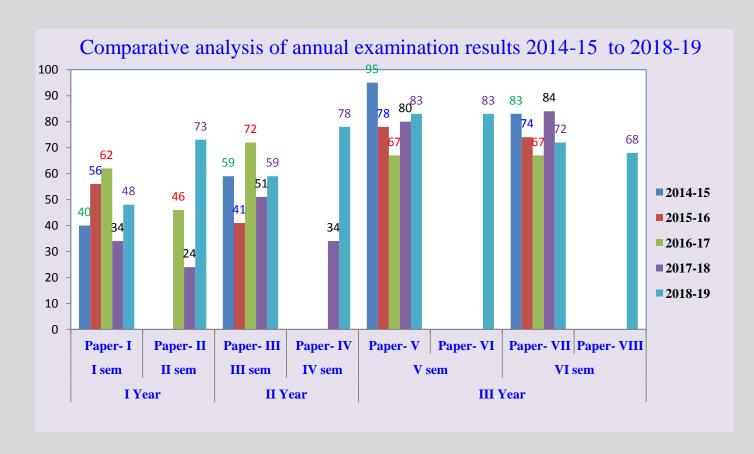
#### **RESULT ANALYSIS FOR THE ACADEMIC YEAR 2018-2019**

Sl.No	Class	Semester & Paper	appeared	passed	pass%
1.	B.Sc-I	Semester –I (Paper- I)	62	28	48
		Semester –II (Paper-II)	62	45	73
2.	B.Sc-II	Semester –III (Paper- III	53	31	59
		Semester –IV (Paper-IV)	53	40	78
3.	B.Sc-III	Semester –V (Paper- V)	60	47	83
		Semester –V (Paper-VI)	60	50	83
		Semester –VI (Paper- VII)	60	43	72
		Semester –VI (Paper-VIII)	60	41	68



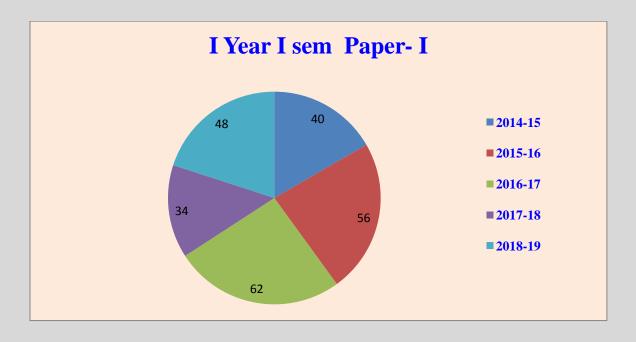
#### **COMPARATIVE RESULT ANALYSIS:**

Sl.	Class	Semester & Paper		Pass % fo	or the acad	emic year	
No			2014-15	2015-16	2016-17	2017-18	2018-19
1.	B.Sc-I	Semester –I (Paper- I)	40	56	62	34	48
		Semester –II (Paper-II)			46	24	73
2.	B.Sc-II	Semester –III (Paper- III	59	41	72	51	59
		Semester –IV (Paper-IV)				34	78
3.	B.Sc-III	Semester –V (Paper- V)	95	78	67	80	83
		Semester –V (Paper-VI)					83
		Semester –VI (Paper- VII)	83	74	67	84	72
		Semester –VI (Paper-VIII)					68

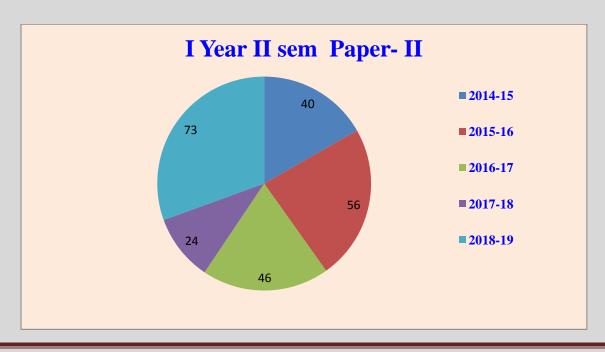


# Paper wise Analysis of last five years

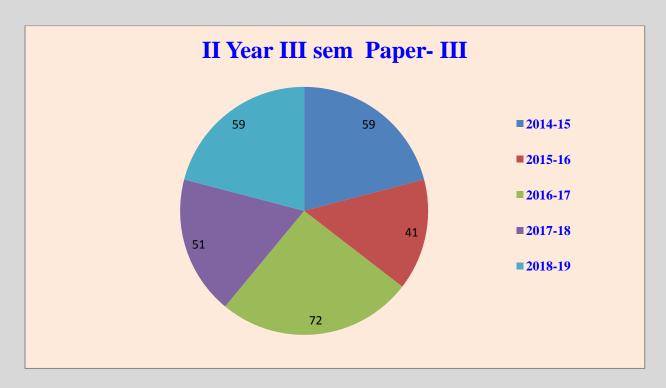
Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
I Year	Sem -I	Paper- I	40	56	62	34	48



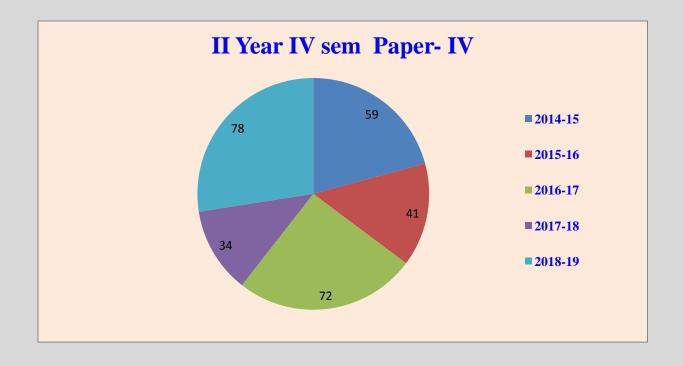
Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
I Year	Sem -II	Paper- II	40	56	46	24	73



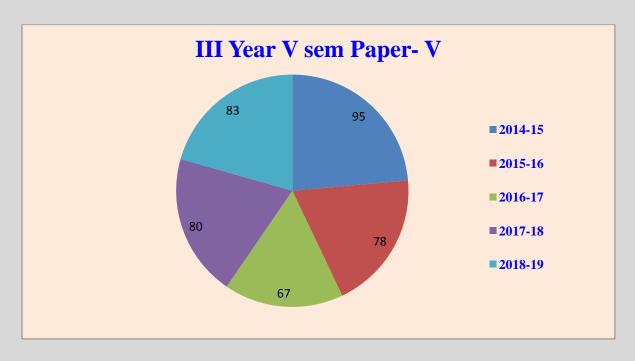
Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
II Year	Sem -III	Paper- III	59	41	72	51	59



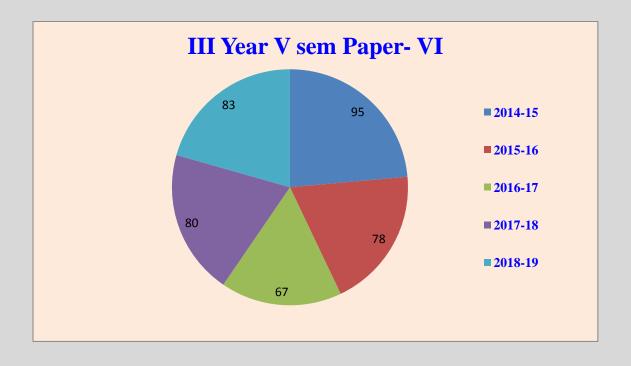
Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
II Year	Sem -IV	Paper- IV	59	41	72	34	78



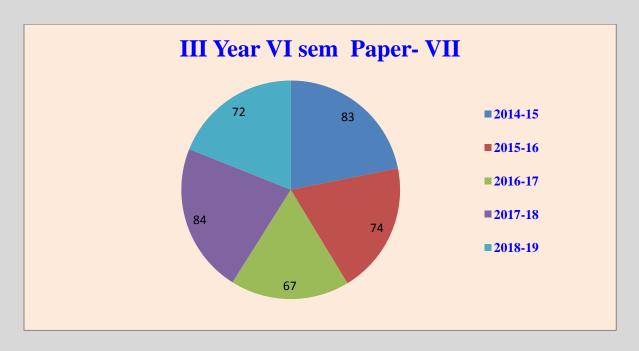
Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
III Year	Sem -V	Paper- V	95	78	67	80	83



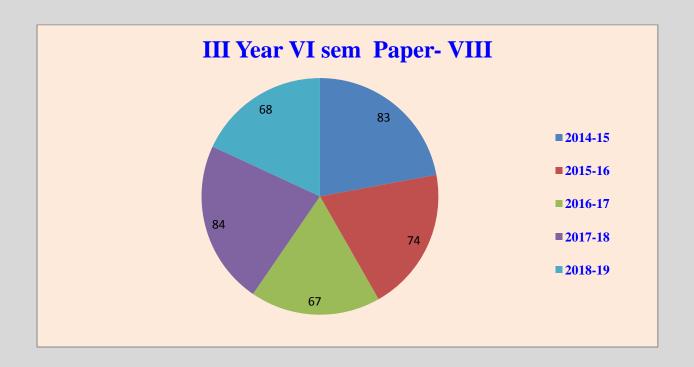
Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
III Year	Sem -VI	Paper- VI	95	78	67	80	83



Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
III Year	Sem -VII	Paper- VII	83	74	67	84	72



Year	Sem	Paper	2014-15	2015-16	2016-17	2017-18	2018-19
III Year	Sem -VIII	Paper- VIII	83	74	67	84	68



# **Seven Criteria Wise Departmental Activities**

# 1. Curricular Aspects:

#### **Annual Curricular Plan:**

The annual curricular plan is prepared at the beginning of the academic year in which curricular, co-curricular and extracurricular activities are included.

#### **Review of syllabus:**

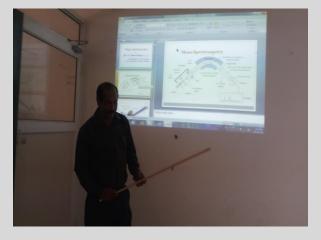
As soon as the time table and work load are distributed among the faculty, the syllabus also distributed among the faculty members of the department at the beginning of the academic year. In the departmental meeting, the completion of the syllabus is reviewed periodically in each meeting and necessary measures are taken to complete the syllabus with in the scheduled time.

# 2. Teaching, Learning and Evaluation:

#### **Teaching methods & teaching aids:**

The faculty members of the department use informative method for teaching accompanied by demonstrations and information and communication technology aids. Apart from the black board, the faculty members also use charts, atomic/ molecular models, power point presentation for the benefit of the students.

The department also exposes the students to the MANA TV lessons as per the prescribed schedule of the CCE.



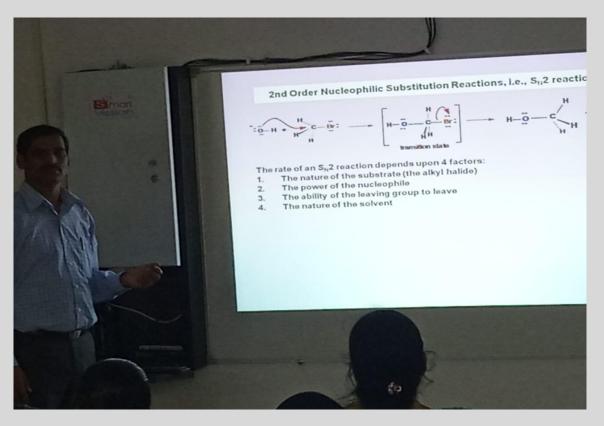


## Faculty using PPTs for Teaching

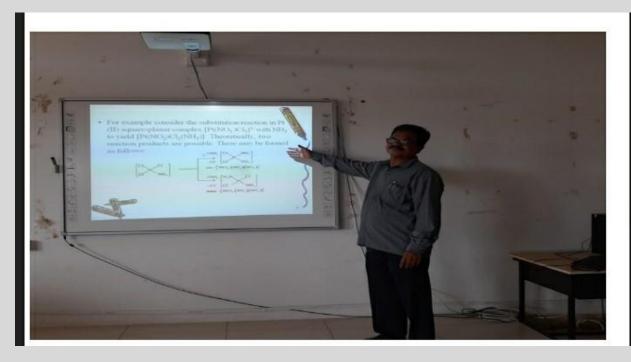
#### Learning Aspects – Guest / Extension Lectures:

Every year the department arranges 2-3 Guest/ Extension lectures. The details of Guest / Extension lectures arranged by the department are given below.

Sl	Name of the speaker	Designation&	Guest/Exten	Topic covered
.No		Address	sion	
1	Dr. D. Karunakar	Asst. Professor GDC	Extension	SN1 & SN2
		Ssdashivpet		Mechanism
2	Dr. V. Ravinder Reddy	Asst. Professor	Extension	Coordination
		GDC(W)Gajwel		Chemistry
3	Smt. Shaik. Kaja Bee	Asst. Professor,	Guest	Chromatography
		GDC Yellareddy		



Dr. D. Karunakar delivering an Extension Lecture on  $SN_1$  &  $SN_2$  Mechanism



Dr. V. Ravinder Reddy delivering an Extension Lecture on Coordination Compounds

The following faculty members of the department were invited as resource persons to deliver Guest /Extension lecture at other colleges.

Sl .No	Name of the	Address of the	<b>Guest/Extension</b>	Topic covered
	speaker	Institution		
1	Dr. P. Adavi Raju	Asst. Professor	Extension	NMR
		GDC(A) Siddipet		Spectroscopy
2	N. Sravani	Asst. Professor	Guest	Hydrocarbons
		GDC(W)Gajwel		

#### **Evaluation Methods:**

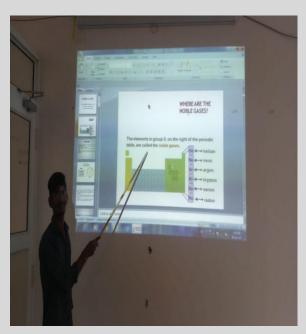
Evaluation of the students is done through conduction of slip tests, Unit tests, Quarterly, Half yearly, pre final examinations; the students are also evaluated through

- > Seminar presentation
- > Group discussions
- Quiz competitions

Depending on the performance of the students in the class room and in examinations, advanced learners are identified and they are encouraged by the allotment of project works, models preparation.

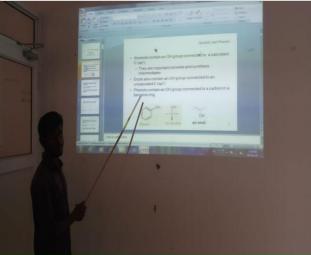
# **Student Seminar Presentation**

Sl.No	Student Name	Group&Year	Topic
1	J.Naresh	B.Sc MPC I Year	Zero Group Elements
2	G.Anil	B.Sc MPC II Year	P Block elements
3	P.Swamy	B.ScMPC II Year	Carbohydrates
4	N.Srikanth	B.Sc BZC II Year	Nitro compounds









# **Quiz Competition on Hydrocarbons**





# 3. Research Activity:

# • Study projects:

The study projects are compulsory for the B.Sc. III year students and one of the study project titled "*interpretation of spectral data*" is made part of the practical syllabus in the paper IV as the norms of the Osmania University.

### • Project works:

Various project works are allotted to the advanced learning as well as enthusiastic students, under the supervision of the lecturers of the completed project works.

# **JIGNASA STUDENT STUDY PROJECT -2018**

**Project on** 

# A STUDY ON EFFECT OF PESTICIDES ON HUMAN HEALTH IN GAJWEL AREA

**Submitted to** 



# JIGNASA PROJECT CO-ORDINATER CCE NAMPALLY HYDERABAD

# BY

M. Shirisha
 N. Anusha
 L. Divya
 P. Haribabu
 R. Srikanth
 B.Sc MPC III yr
 B.Sc MPC III yr
 B.Sc MPC III yr
 B.Sc MPC III yr

# Under the supervision of

Dr. P. Adavi Raju M.Sc., Ph.D., Assistant Professor

In charge Department of Chemistry Govt. Degree College, Gajwel, Siddipet: Dist,-Telangana.

2018







# 4. Departmental Infrastructure:

### Chemistry Department has

- ➤ Three Laboratories (Organic, Inorganic and Physical chemistry) and staff room.
- ➤ High cost sophisticated equipment, Colorimeters, Conductivity meters, P<sup>H</sup> Meters, Electrical balance (single pan), Rotavapour, Microwave oven, Computers, Refrigerator, Ovens, TLC UV Chamber, Water distillation plant, Melting point measuring apparatus, viscometer, etc.
- > Charts, molecular models.
- ➤ Departmental library with 30 text books and reference books.
- ➤ All chemicals and glassware required for the practical and projects.

# 5. Student support Programme:

## • Ward counseling:

The ward system is taken up by the department at the beginning of the academic year for the newly admitted students of B.Sc.(M.P.C) the details of the ward are registered and counseling is given to the needy students ,both academic and personal.

## Remedial coaching :

Remedial classes are conducted for the poor performing students of B.Sc.II and III year before the university examinations . the result analysis of the so trained candidates is also done .

## • Career guidance:

Students approach the faculty members of the department for suggestions regarding their career opportunities and higher studies.

Students are guided

- ➤ To improve communication skills
- ➤ To improve computer skills
- ➤ With the information regarding career opportunities
- > To improve general knowledge by visiting library regularly

#### • Feedback system:

The feedback from the students on the activities of the department is taken time to time .the feed backs are analyzed and steps are taken to improve the quality of activities as per the students.

#### • Other support systems :

- ❖ Teaching notes are provided for slow learners
- ❖ Books are issued from the departmental library
- They are encouraged with prizes such as text books, pens, note books, etc.

# 6. Organization & Management:

## • Department Meetings:

The department organized meeting with all the staff members of the department periodically to check out the action plan of the department.

## • College Committees:

The faculty members of the department involve in many college committees and contribute their service for the better functioning of college administration.

#### • Awareness programmes:

The staff and students of the department also participate in community service and awareness programmes through NSS, Pink Ribbon Club Women Empowerment Cell, etc.

#### • Extension activities :

The staff also participates in the programmes arranged by other departments such as

District Level Bio Quiz conducted by Dept. of Microbiology and department of botany

- ❖ National Seminar conducted by Department of Economics
- State level work shop organized on Quantitative Analysis of Compounds & Analysis of Spectral Data of Organic Compounds



# STATE LEVEL ONE DAY WORK SHOP



QUANTITATIVE ANALYSIS OF COMPOUNDS (POTENTIOMETRY, PH METRY & CONDUCTOMETRY) & ANALYSIS OF SPECTRAL DATA OF ORGANIC COMPOUNDS

02 March 2019



District Collector and Gajwel Area Development Authority (GADA), Siddipet, District.

#### Organized by

# Department of Chemistry Government Degree & P.G College, Gajwel

In collaboration with

MARS INTERNATIONAL INDIA PVT. LTD, WARGAL, SIDDIPET DISTRICT

Chairman of the workshop :Dr. A. Srinivas Reddy, Principal

Chief Guest : K. Suresh Babu, Scientist IICT, Hyd

Guest of honor :Mr. k.Ravi kiran, sr. corporate Affairs specialist
Convener : Dr. P. Adavi Raju, Asst. prof.of Chemistry
Co- convener : Smt . N. Soundarya, Lecturer in chemistry













# 7. Best/Innovative Practices:

## • Present practices:

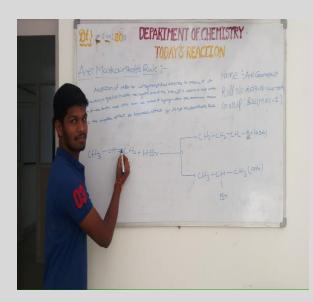
At present the best/innovative practices that are adopted by the department are

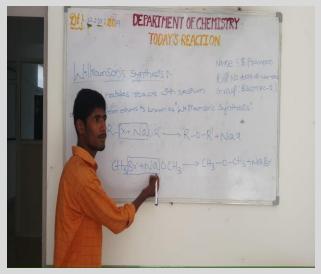
• Every chemistry student has to write any *Named Chemical*\*Reaction and mechanism\* on the notice board of the chemistry department.

# **Future Plans of the Department are**

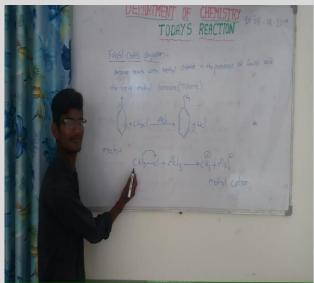
- To start the Programme of Post Graduation in Chemistry in the college with due permission from the affiliating university
- To establish "Chemistry Club" with neighboring college lecturers

# DEPARTMENT OF CHEMISTRY TODAY'S REACTION (BEST PRACTICESS)

















#### **CURRICULUM VITTAE**



1. Name of the Faculty : Dr. P. Adavi Raju

2. Designation : Asst. Professor of Chemistry

3. Fathers Name : P. Veerabadraiah

4. Date of Birth : 01-09-1975

5. Date of entry into service : 05-11-2010

6. Academic Qualification : M.Sc., Ph.D.,

7. Address : H. No: 13-13, Yadav Nagar, Malkajgiri, Hyderabad-500047

8. Research Details : Doing Research on Quantitative Determination of Drugs and

Pharmaceuticals

9. Details of Publications : Published 3 papers

#### 10. Seminars/Workshops/Training Programmes attended:

 a. Conducted a state level work shop on quantitative analysis of compounds (Potentiometry, pH metry & Conductometry) & Analysis of Spectral data of Organic Compounds on 02-03-2019.

- b. 26 th Orientation course at UGC-Academic Staff College, JNTUH.
- c. Short term course on Effective Teaching and Communication skills at JNTUH.
- d. Refresh course at UGC-Academic Staff College, Osmania University, Hyderabad.
- e. Induction training programme at Nagarjuna Govt. Degree College, Nalgonda.

#### 11. Resposibilities:

- a. Acting as NSS-Unit-IV Programme Officer in the college
- b. In-charge of the Department of Chemistry

# **CURRICULUM VITTAE**



1. Name of the Faculty : Nallaganti Saikondalu

2. Designation : Assistant Professor of Chemistry

3. Fathers Name : N Narsihma

4. Date of Birth : 06-09-1985

5. Date of entry into service : 26-11-2011

6. Academic Qualification : M.Sc, B.Ed.

7. Address : Narsaipally, Nagarkurnool, Telangana-509209

8. Research Details : No

9. Details of Publications : No

#### 10. Seminars/Workshops/Training Programmes attended:

#### 11. Responsibilities:

- a) Magazine committee Member
- **b) Sport Committee Member**
- c) Career Guidance Committee Member