

Government Degree College , Shanthinagar -5091

Jogulamba Gadwal Dist. Telangana

Affiliated to Palamuru University



WELCOME TO DEPARTMENT OF CHEMISTRY

In Charge of The Department

Sri. Dr.K Chandra Mohan , M.Sc. ,B.Ed , Ph.d,

Asst Prof of Chemistry

Phone: 9849576952

Email;kondurucmohan@gmail.com

IQAC - Coordinator

Dr.D.V.Sivanarayana, M.Sc, MeD, P.hD

Principal

Dr.G.Poshaiah ,M.A, Ph.D.,

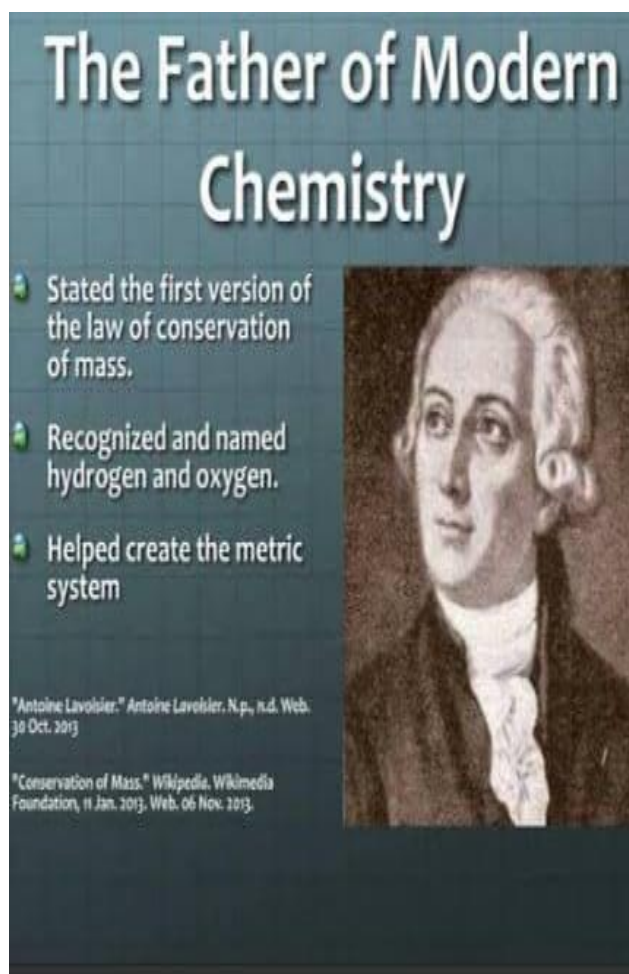
College Web Site: <https://gdcts.cgg.gov.in/shanthinagar.edu>

Government Degree College Shanthinagar

Jogulamba Gadwal, Telangana State

DEPARTMENT OF CHEMISTRY

Department Profile



ANTOINE LAVOISIER the Father of Chemistry

The meeting of two personalities
is like the contact of two chemical substances:



if there is any reaction, *both are transformed.*

~ Carl Jung

“Chemistry is good when you make love with it.

Chemistry is bad when you make crack with it.”

Frederick Soddy

Government Degree College

Shanthinagar, JogulambaGadwal, Telangana State
(Affiliated to Palamuru University, Mahabubnagar)

DEPARTMENT OF CHEMISTRY

Sri. Dr.K Chandra Mohan , M.Sc. ,B.Ed , Ph.d,

VISION

“To Create Scientific temperament for new inventions in the Subject of chemistry which is reflected in the development of world society.”

MISSION

“By way of imbibing and focusing the magic’s of chemistry in the minds of the students and paving way to conquer the impossible.”

SALIENT FEATURES OF THE DEPARTMENT OF chemistry

- ✚ Government Degree college Shanthinagar was started in the year 2014 with BSc,B.Come,B.A
- ✚ B.Sc. courses were introduced in the year 2014 with combination of Mathematics, Physics, Chemistry (MPC) and Botany, Zoology, Chemistry (BZC) in Telugu Medium
- ✚ B.Sc (MPC&BZC) English Medium started in the academic year 2018-19.
- ✚ Conducting the Quiz Programs and Group Discussions.
- ✚ Counseling is given to the students so that they overcome personal as well as career problems.
- ✚ Extension Lectures are arranged for the students.
- ✚ Conducting Remedial Classes for slow learners who get low marks in subjects.
- ✚ The Department has one laboratory with well equipment.

ABOUT THE DEPARTMENT OF CHEMISTRY

The college was established in the year 2014. The department of CHEMISTRY was started with B.Sc, BZC (Botany, Zoology, and Chemistry) and MPC (Math's, Physics, Chemistry) in 2014. The department of chemistry is affiliated to PALAMURU UNIVERSITY - Mahabubnagar. At present the student strength of the department is 81.

Faculty Profile

At Present One Faculty member is working in the department of Chemistry.

S.No	Name of the Lecturer	Designation	Experience
1	Dr.K Chandra mohan	Lecturer in Chemistry	12 years

Faculty Bio-Data

NAME : **Dr.K Chandra Mohan**, M.Sc., B.Ed, P.hD,

Father Name : Sri K.P. Venkatanna

Gender : Male

Date of Birth : 01-07-1971

Residential Address : Plot No. 106 A block Ucon, Paradise Apartment VR colony, Kurnool

Contact Number : 9849576952

Email id : kondurucmohan@gmail.com

Education Qualification: M.Sc.,Phd,B ed

Designation : Lecturer in chemistry

Date of joining : 27-11-2010.

Date of joining present Station : 30-06-2018.

Teaching Experience : 12years



Academic and Administrative Experience

- Completed 1 Orientation course and 1 Refresher courses.
- Presently working as Grievance Redressal cell coordinator, Science Club Coordinator, and member in various committees of GDC Shanthinagar.
- ✓ Refresher course in chemistry from 22-08-2013 to 11-9-2013 at UGC Academic Staff College university of Hyderabad Regd No: 7173.
- ✓ U.G.C Academic Staff College University of Hyderabad K Chandra Mohan Regd No:2488,78th orientation course from 20-09-2012 to 17-10-2012.
- ✓ APSCHE and ICSSR sponsored National Seminar Organized by dept of Economics and women Empowerment Cell. MALD Govt Arts And Science College Gadwall Mahabubnagar dist participated in the two day National Seminar On Human Development And Women Empowerment Issues And Strategic On 29th And 30th November 2013.
- ✓ At M.V.S Govt Arts And Science College (Autonomous) Mahabubnagar Participated In One Day Regional Workshop On Implementation Of Digital Office At Institution Level Organized By IQAC M.V.S Govt Arts And Science College (Autonomous) Mahabubnagar On 04-05-2019
- ✓ The Indian Science Congress Association Has Participated In The 104 Indian Science Congress Held At S V University, Tirupathi From January 3rd To 7th 2017.
- ✓ At Dist Resource Center M.V.S Govt Degree And P G College (Autonomous) Mahabubnagar
- ✓ Participated in One day workshop on recent trends in science and Technology on 3rd sep 2014.

- ✓ Participated in Govt of Telangana Commiserate of collegiate education on successful completion of SODHANA NURTURING young leaders in higher education two day training program held on 2nd and 3rd may 2016 sponsored by state project directorate RUSA.

Courses Taught	Name of the University/ College / Institution	Duration
iv) U.G. (I, II and III B.Sc.)	MALD GDC GADWAL.	27-11- 2010 to 30 -06- 2018.
v) U.G. (I, II and III B.Sc.)	Govt. Degree College, Shanthi nagar	30- 06- 2018 To Till date

Paper Publications:

- 1) Assessment of quality of Ground Water In and Around Kurnol.AP, INDIA.
Research journal of Pharmaceuticals, Biological and chemical science.
- 2) Physio- chemicals analysis of bore-well water of Kurnool environs A.P. Journal of chemical and Pharmaceutical Research.

Courses Offered:

B.Sc.; (Botany, Zoology, Chemistry)

(Mathematics ,Physics , Chemistry)

Telugu Medium & English Medium

Time Table

Department of Chemistry

Academic Year 2021-2022

GOVERNMENT DEGREE COLLEGE(3089) - SHANTHINAGAR

DEPARTMENT OF Chemistry

B.SC. I, III & V SEMESTER TIME TABLE FOR THE ACADEMIC YEAR 2021-2022

DAYS	GROUP	10:00- 11:00AM	11:00- 12:00PM	12:00- 01:00PM	L U N C H	01:30- 02:30PM	02:30- 03:30PM	03:30- 04:30PM
MON	B.SC 1	Chemistry						E.V.S
	B.SC 2		SEC-I			Chemistry PR ACTICALS		
	B.SC 3			Chemistry				
TUE	B.SC 1		Chemistry					
	B.SC 2	Chemistry						
	B.SC 3					Chemistry PR ACTICALS		
WED	B.SC 1							
	B.SC 2		Chemistry					
	B.SC 3	Chemistry		G.E.				
THUS	B.SC 1		Chemistry			Chemistry PR ACTICALS		
	B.SC 2							SEC-I
	B.SC 3	Chemistry				G.E.		
FRI	B.SC 1							
	B.SC 2		Chemistry					SEC-II
	B.SC 3					Chemistry		G.E.
SAT	B.SC 1	Chemistry						
	B.SC 2						SEC-II	
	B.SC 3			G.E.				

Student particulars category wise for the year 2016-17 to 2020-21

Academic Year 2016-2017

Group	Boys	Girls	Medium	SC	ST	BC- A	BC- B	BC- C	BC- D	BC- E	OC	Minority	Total
BZC- i	11	29	T/M	13	0	5	11	1	9	2	0	0	40
BZC- II	5	0	T/M	0	0	3	1	0	1	0	0	0	5
BZC- III	9	8	T/M	5	0	3	8	0	1	0	0	0	17
MPC- I	08	16	T/M	03	-	05	11	-	04	-	01	-	24
MPC- II	01	11	T/M	-	-	03	05	-	02	-	02	-	12
MPC- III	23	05	T/M	10	-	03	08	-	02	03	02	-	28

Academic Year 2017-20 18

I BZC	9	13	T/M	4	0	7	5	0	3	1	2	0	22
II BZC	6	26	T/M	9	0	5	10	1	5	2	0	0	32
III BZC	2	0	T/M	0	0	2	0	0	0	0	0	0	2
MPC- I	01	02	T/M	-	-	01	02	-	-	-	-	-	03
MPC- II	03	13	T/M	03	-	04	05	-	03	-	01	-	16
MPC- III	02	08	T/M	01	-	02	04	-	02	-	01	-	10

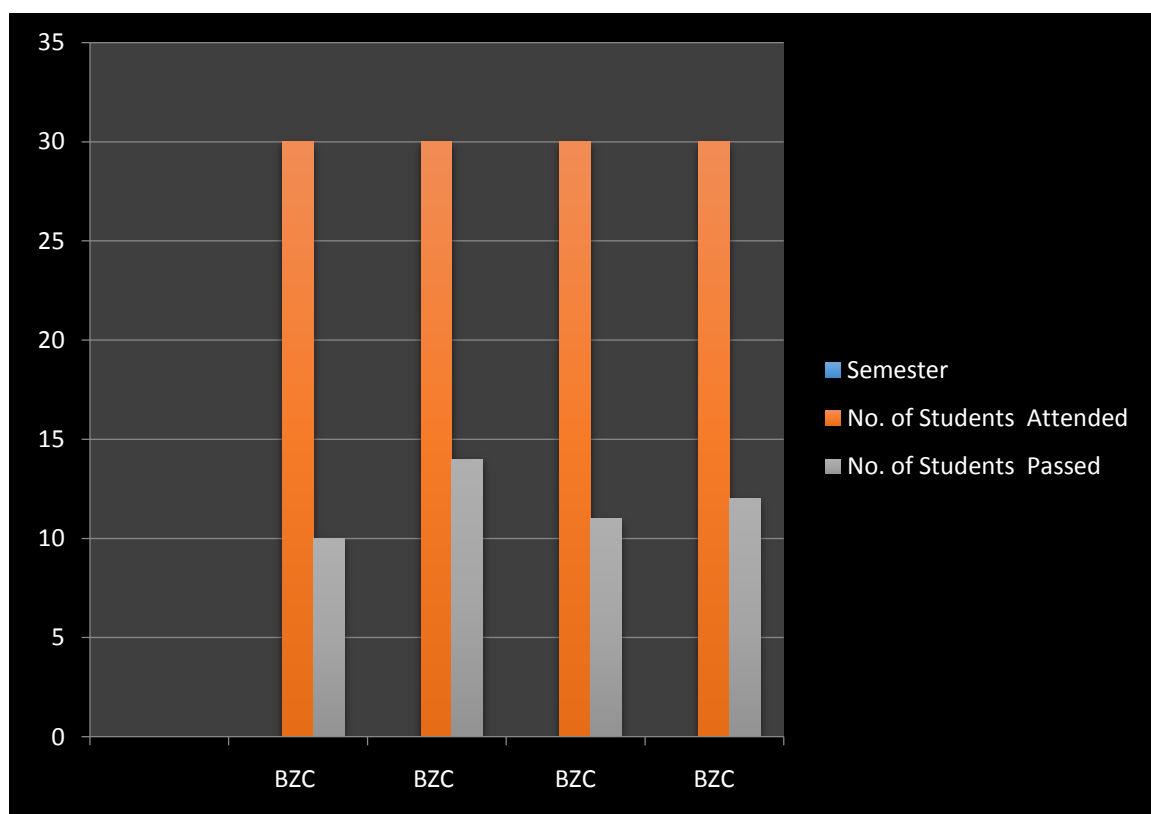
Academic Year 2018-20 19

I BZC	2	5	E/M	1	0	0	3	0	1	1	1	0	7
I BZC	3	6	T/M	3	0	2	4	0	0	0	0	0	9
II BZC	5	10	T/M	2	0	5	3	0	3	1	1	0	15
III BZC	7	20	T/M	7	0	4	10	0	4	2	1	0	27
MPC- I	01	02	E/M	01	-	-	02	-	-	-	-	-	3
MPC- I	08	03	T/M	01	-	06	04	-	-	-	-	-	11
MPC- II	-	-	-	-	-	-	-	-	-	-	-	-	-
MPC- III	03	13	T/M	03	-	04	05	-	03	-	01	-	16

RESULT ANALYSIS

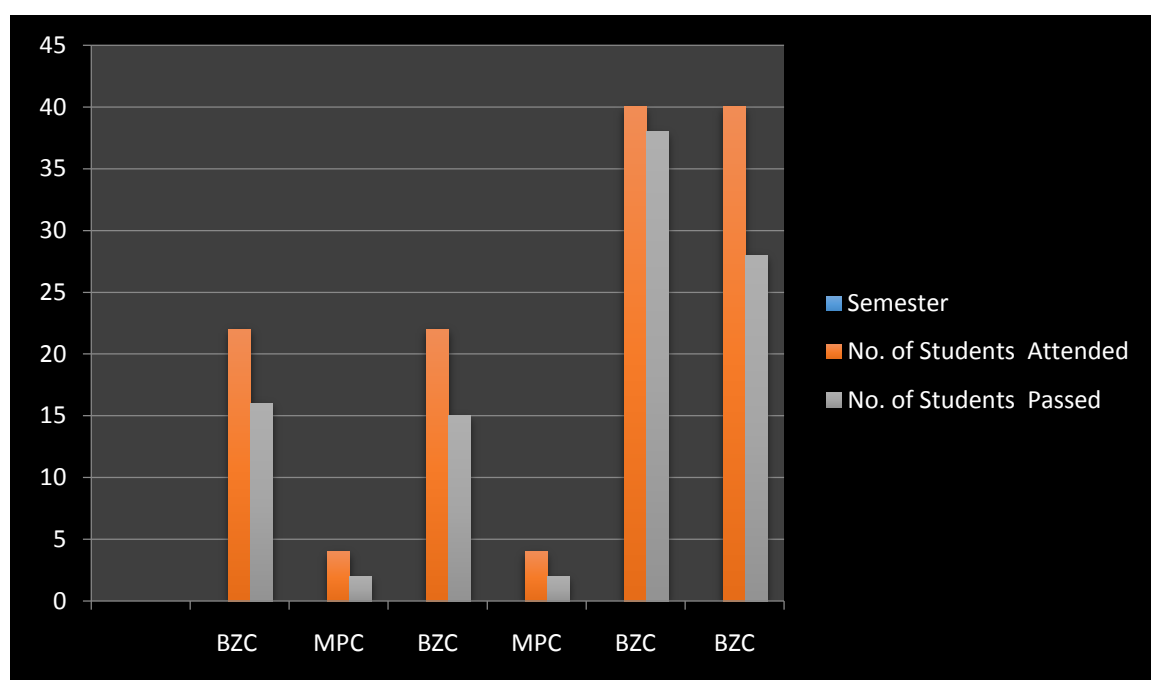
Academic Year 2016-17

Group	Semester	No. of Students Attended	No. of Students Passed	Pass Percentage %
BZC	I	30	10	33.33
BZC	II	30	14	46.65
BZC	III	30	11	36.60
BZC	III (IV)	30	12	40.00



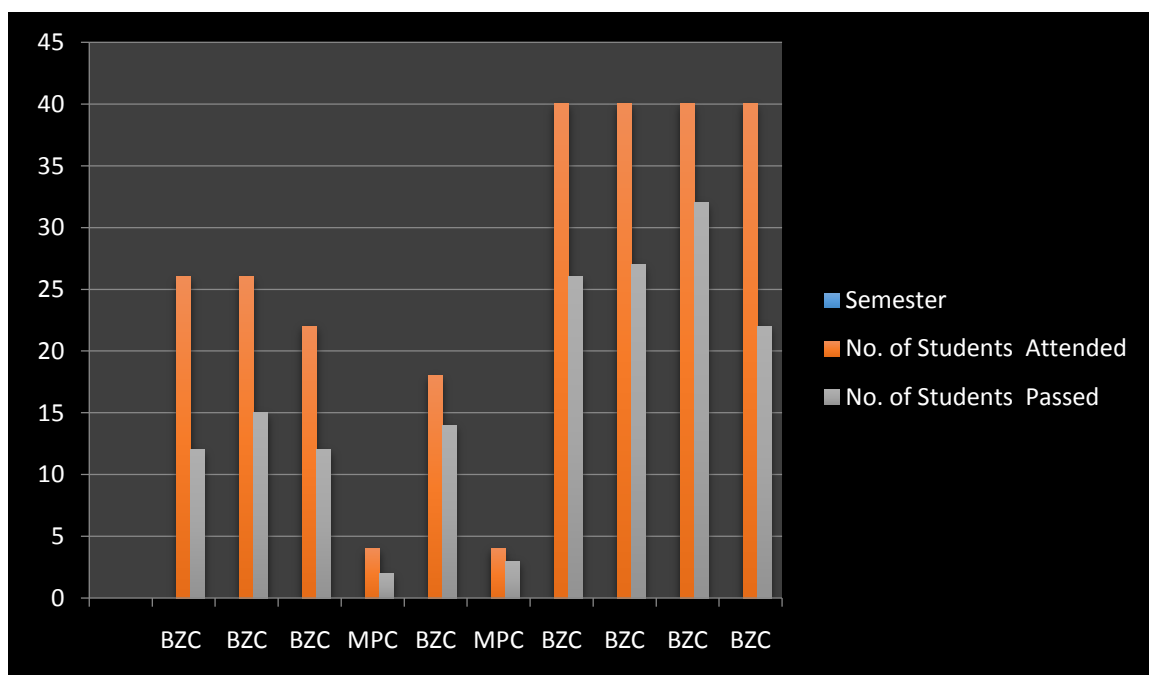
Academic Year 2017-18

Group	Semester	No. of Students Attended	No. of Students Passed	Pass Percentage %
BZC	Sem I	22	16	72.72
MPC	SEM I	4	2	50.00
BZC	SEM II	22	15	68.18
MPC	SEM II	04	02	50.00
BZC	SEM III	40	38	95.00
BZC	SEM IV	40	28	70.00



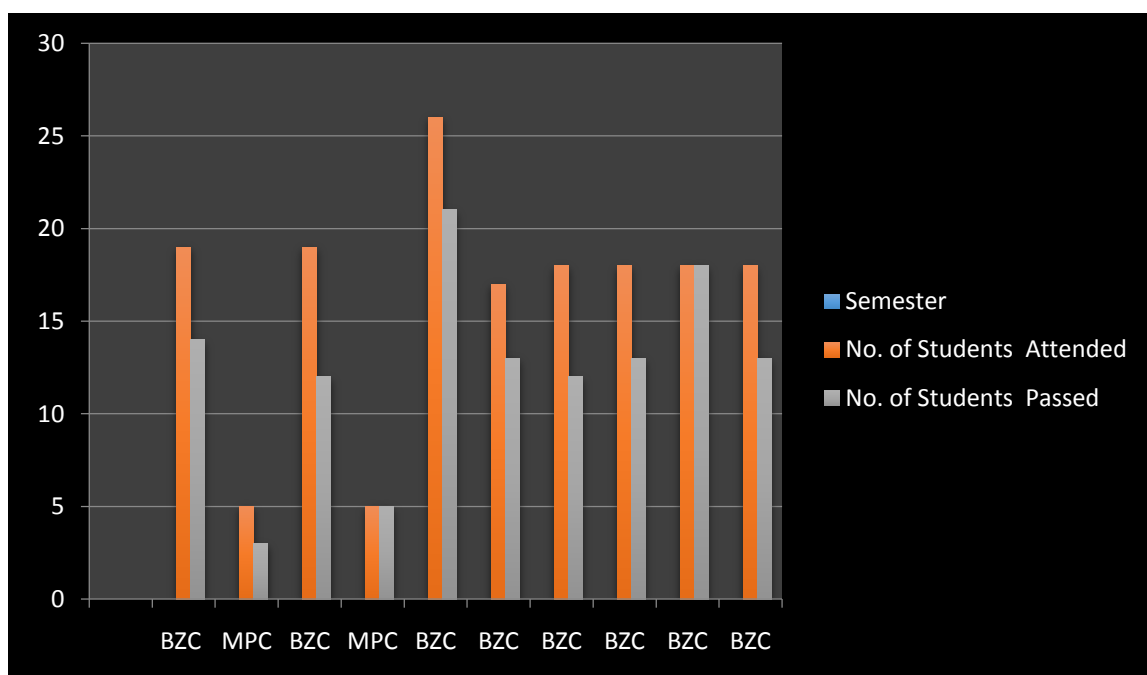
Academic Year 2018-19

Group	Semester	No. of Students Attended	No. of Students Passed	Pass Percentage %
BZC	SEM I	26	12	46.15
BZC	SEM II	26	15	57.69
BZC	SEM III	22	12	54.54
MPC	SEM III	04	02	50.00
BZC	SEM IV	18	14	77.00
MPC	SEM IV	04	03	75.00
BZC	SEM V	40	26	65.00
BZC	SEM V	40	27	67.50
BZC	SEM VI	40	32	80.00
BZC	SEM VI	40	22	55.00



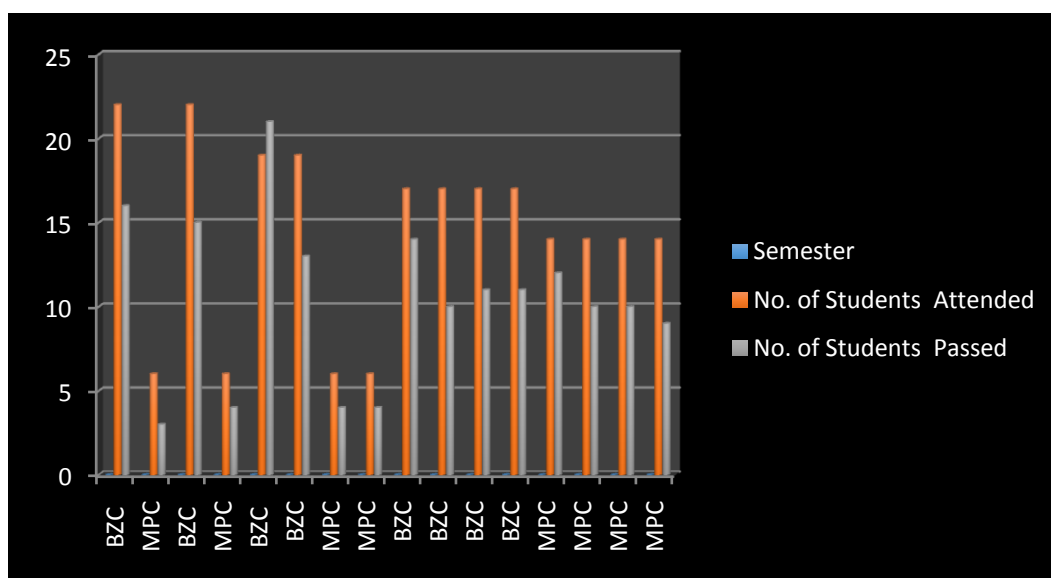
Academic Year 2019-20

Group	Semester	No. of Students Attended	No. of Students Passed	Pass Percentage %
BZC	SEM I	19	14	73.68
MPC	SEM I	05	03	60.00
BZC	SEM II	19	12	63.15
MPC	SEM II	05	05	100.00
BZC	SEM III	26	21	86.76
BZC	SEM IV	17	13	76.00
BZC	SEM V	18	12	66.66
BZC	SEM V	18	13	72.2
BZC	SEM VI	18	18	100.00
BZC	SEM VI	18	13	72.22



Academic Year 2020-21

Group	Semester	No. of Students Attended	No. of Students Passed	Pass Percentage %
BZC	SEM I	22	16	72.70
MPC	SEM I	06	03	50.00
BZC	SEM II	22	15	68.18
MPC	SEM II	06	04	66.66
BZC	SEM III	19	21	63.15
BZC	SEM IV	19	13	68.42
MPC	SEM III	06	04	66.66
MPC	SEM IV	06	04	66.66
BZC	SEM V	17	14	82.35
BZC	SEM V	17	10	58.82
BZC	SEM VI	17	11	64.70
BZC	SEM VI	17	11	64.70
MPC	SEM VI	14	12	85.71
MPC	SEM VI	14	10	71.42
MPC	SEM VI	14	10	71.42
MPC	SEM VI	14	09	64.28



DEPARTMENTAL ACTIVITIES

CURRICULAR ASPECTS

- ✚ We follow the syllabus framed by Palamuru University, Mahabubnagar.
- ✚ Improvement of syllabus is done by incorporating the additional inputs.
- ✚ Annual curriculum plan is prepared in the beginning of the academic year based on the Academic calendar supplied by the Commissionerate of Collegiate Education and almanacs of the affiliating University.
- ✚ In entire B.Sc (BZC) and M pc course, there are 06 papers theory each of 80marks and 06 practical papers each of 25 marks. Internal papers each of 20 marks.

The syllabus is listed below

Semester	Paper	Syllabus
Semester I	I	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry
Semester II	II	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry
Semester III	III	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry
Semester IV	IV	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry
Semester V	V	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry
	VI	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry
Semester VI	VII	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry
	VIII	Inorganic Chemistry , Organic Chemistry, Physical Chemistry General Chemistry

TEACHING, LEARNING AND EVALUATION

- ❖ Department of chemistry follows the syllabus and other curricular aspects framed by Palamuru University, Mahabubnagar.
- ❖ Students are encouraged to participate in Class room Seminars, Quiz programmes and Group discussions.
- ❖ Further they are guided to do some projects to strengthen their application skills in the subject required during their study.
- ❖ The students are encouraged to take active part in extra-curricular activities like campus clean and green programme.

TEACHING:

- ✓ The teaching involves mainly Lecture, Inductive and Deductive methods.
- ✓ In the beginning of each academic year the annual academic plans are prepared by each lecturer.
- ✓ Teaching diary and teaching notes are maintained by every staff member.
- ✓ Students are encouraged to participate in seminars, quiz and group discussions conducted by lecturers in their respective classes.
- ✓ The educationally backward students in each class are identified and are given remedial coaching.
- ✓ The students have been encouraged to collect different clippings related to the subject from newspapers and magazines.
- ✓ The department makes use of teaching aids such as charts, models, specimens, Power Point presentation, Digital Boards.

LEARNING:

- The students are encouraged to read textbooks from the college main library and they discuss difficult topics with the staff members.
- Slow learners are identified and given remedial classes.
- Average students are encouraged to write assignments on the topics useful for the examinations.
- The bright students are encouraged to undertake study projects.

EVALUATION:

- The performance of the students is evaluated through Internal Exams. The pre-final examination at the end of the academic year improves final performance level of the students.
- The performance of students is also evaluated by the following programmes.
 - Student Seminars
 - Quiz Programmes
 - Group Discussions
 - Assignments

STUDENT SEMINARS:

✚ To improve the presentation skills of the students, we are arranging the class room student's seminars regularly.

✚ The topics of seminars are given in advance to the students and the lecturer will guide them to present the seminar.

DETAILS OF STUDENT SEMINARS

S.No.	Date	Class	Roll No.	Name of the Student	Topic
1	16-09-2016	BZC II Year	16033089455535	C.Madhavi	Aromatic Hydrocarbon
2	17-02-2017	BZC I year	16033089445507	Ediga Sridhar Goud	Aliphatic hydrocarbon
3	18-07-2017	BZC II year	17033089445501	A.Kishor	Carboxylic Acid
4	18-10-2018	BZC II Year	17033089445519	MD Shabana	F-Block Elementl
5	23-11-2019	MPC II Year	16033089441510	K.Bhulaxmi	In organic reaction mechanism
6	05-01-2019	BZC II Year	16033089445508	E.Swapna	Bio-in Organic Chemistry
7	17-08-2019	BZC II Year	20033089445001	B.Pravallika	Pospulacl VDT
8	25/02/2021	MPC II Year	19033089441004	P.Reshma	Calculation EAN
9	24-03-2021	MPC II Year	18033089441506	K.Mallikarjun	Relation between CP&CV

Students Seminars



Quiz Competition Photos



Poster Presentations by students on Ozone day



ICT Mode classes:



JOB MELA



Selected Candidates:

1. B.Renuka, III B.Com
2. B.Mahesh, III B.SC (BZC)
3. K.Kalyani, II B.Com
4. G.Krishna Veni, II B.Com

Students State Level Jignasa Project

Estimation of fluorides in and surroundings of waddepally mandal, jogulamba gadwall dist.

Jignasa Study project presentation at IPGDC-W, Nampally , Hyderabad.



E-Content:

https://youtu.be/1KAfgeTb0_Q

<https://youtu.be/Gs5Ruv4i6ss>

<https://youtu.be/WpNX71-0fcc>

<https://youtu.be/FWZeQbBapfl>

<https://youtu.be/KOp-yDdMJdw>

https://youtu.be/oWRqCJLj_mQ

<https://youtu.be/VI1Wv3MgBIU>

<https://youtu.be/eBP4F52JPkg>

<https://youtu.be/gMzZxW7vtNs>

https://youtu.be/do0ZoWMAx_4

<https://youtu.be/ICewMNcPRHA>

<https://youtu.be/ICewMNcPRHA>

<https://youtu.be/ARyJ-HpPRmg>

<https://youtu.be/naGKEkL4cgU>

<https://youtu.be/5f7qY4G8j2M>

<https://youtu.be/ZowpMnhcyYQ>

<https://youtu.be/seJHY2xZDEM>

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https://youtu.be/E_Zr-o9bYiQ

<https://youtu.be/8pPmbkBIPHA>

<https://youtu.be/CGASctjECkQ>

<https://youtu.be/zxsxtawLdNA>

<https://youtu.be/QY4ILHqDZf8>

<https://youtu.be/WbXUDctyAPA>

<https://youtu.be/LCdyY0b8X4E>

<https://youtu.be/GkH00jhbb9M>

https://youtu.be/e_t87KCciaw

Extension Lectures:

For the benefit of the students the department arranged Guest Lectures.

S.No.	Date	Name of the Lecturer	Name of the College	Topic
1	17-08-2016	K. bhaskar	MALD GDC Gadwal	1 Group elements
2	14-03-2018	P.Chekraphani Reddy	Govt degree college athamakur	Separate of amen's
3	20-02-2019	Venkatsh	MALD GDC Gadwal	D-Block elements
4	17-03-2021	Venkatsh	MALD GDC Gadwal	Coordination Compounds



Extension Lecture by Sri P. chakrapani reddy

Govt degree college atmakur



Extension Lecture by Sri venkatesh Govt degree college women



Extension Lecture by Sri . K. bhaskar MALD GDC Gadwal

REMEDIAL CLASSES:

Slow learners are identified based on the performance in the internal examinations and failures are identified based on the annual exam results. The remedial classes were conducted for both slow learners and failures to improve their performance.

FEEDBACK

Feedback forms are provided to the students and get the information about the syllabus and teaching mode of faculty. The forms are collected and analyzed by the in charge of the department and the report is submitted to the principal for necessary action.

STUDY PROJECTS:

To inculcate the research temper in the young minds, the faculty members of the Department is initiated study projects for students. It encourages the independent learning capacity and research ability.

<u>Soap Making-2016-17</u>			
S.No	Name of the student	Hall ticket number	Group
1	Boya Malleswari	16033089445504	BZC
2	D.Suchitra	16033089445506	BZC
3	D.Krishna Veni	16033089441505	MPC
4	G.Jyothi	16033089441506	MPC

<u>Determination contents of cool drinks -2017-18</u>			
S.No	Name of the student	Hall ticket number	Group
1	A.Kishore	17033089445501	BZC
2	B.Gopal	17033089445502	BZC
3	K.sunil	1703308944503	MPC
4	K.Kupendra	17033089441501	MPC

<u>STUDY PROJECT Extraction of caffeine an alkaloid from tea leaves</u>			2018-19
S.No	Name of the student	Hall ticket number	Group
1	A.Lavanya	18033089445001	BZC
2	B.Ranga Reddy	18033089445002	BZC
3	S.Ajay	18033089441003	MPC
4	K.Ravi	18033089441501	MPC

STUDY PROJECT ONFoaming Capacity of Soaps 2019-20

S.No	Name of the student	Hall ticket number	Group
1	E.Geetha	19033089445001	BZC
2	G.Rajani	19033089445002	BZC
3	V.Thirumalesh	19033089441005	MPC
4	K.Ramudu	19033089441002	MPC

STUDY PROJECT ON USES OFfluoridesTS

S.No	Name of the student	Hall ticket number	Group
1	B.Mahesh	19033089089445501	BZC
2	L,PUJITHA	210330894451016	BZC
3	N.PUJITHA	20033089445011	BZC
4	PRAVALIKA	20033089445001	BZC
5	HIMABINDHU	210330894451014	BZC
6	SHIVA KUMARI	210330894451015	BZC

Highlights of the Department

- ✚ The Department of Chemistry is producing good results every year.
- ✚ The students are encouraged to involve in study projects.
- ✚ Students are encouraged to join in job oriented courses like TASK

Future plans:

- To improve student admissions in Chemistry and pursue UG Courses.
- To upgrade laboratory in chemistry Department.
- It is planned to purchase latest reference books.
- To organize work shop/seminars.
- Planned to submit Major/Minor Research Project proposals to Various research funding agencies like CSIR , UGC and DST.
- To improve ICT methods in Academic teaching.

Thank You