

GOVT. DEGREE COLLEGE FOR WOMEN WANAPARTHY



PROFILE

DEPARTMENT OF CHEMISTRY

**Welcome to Department of Chemistry
GDC(W) Wanaparthy**

**Offering innovative and exciting
opportunities for study and Research**



For better or for worse, everything is chemistry

**OUR MOTTO: *ENTER TO LEARN*
*LEAVE TO SERVE***

IMPORTANCE OF CHEMISTRY:

Chemistry is the study of the composition, structure, properties and changes that matter undergoes. Matter is anything that has mass and occupies space/volume. We find chemistry in daily life. The food we eat, the air we breathe, every object we can see or touch, our emotions, literally we find chemistry. Many of the changes that occur in the world around us are caused by chemical reactions. Chemistry is a big part of everyday life. Chemistry is sometimes called “the central science” because it bridges other natural science like physics, geology and biology with each other.

Chemistry is an incredibly fascinating field of study. Because it is so fundamental to our world, chemistry plays a role in everyone’s lives and touches almost every aspect of our existence in some way. Chemistry is essential for meeting our basic needs of food, clothing, shelter, health, energy, clean air, water and soil. Chemical technologies enrich our quality of life in numerous ways by providing new solutions to problems in health, materials and energy usage. Knowledge of the nature of chemicals and chemical processes therefore provides insights into a variety of physical and biological phenomena. Knowing something about chemistry is worthwhile because it provides an excellent basis for understanding the physical universe we live in.

INTRODUCTION:

- The Department of CHEMISTRY was established since the very inception of the college in 1991 with under graduation course for the first time in this rural area.
- The Department has taken up some of the additional curriculum programmes like Guest Lectures, Extension Lectures, Field Trips, Group Discussions and Quiz's to enrich the student knowledge.
- The Department also provides the study projects to merit students and conduct student seminars to improve their presentation skills. The Department is also giving additional coaching for students to get the admission into M.Sc (Chemistry). Course conducted by various universities.
- Faculty of the department prepares the annual action plan at the start of the academic year based on the academic calendar supplied by the Commissionerate of Collegiate Education.
- Faculty frequently assembles and discusses the events conducting for students are recorded in minutes register.

COURSES OFFERED:

- At present chemistry is offered in B.Sc course with three combination i.e.,
 1. Chemistry – Physics – Mathematics English medium
 2. Chemistry – Botany – Zoology Telugu and English medium
- In entire B.Sc Chemistry course there are 8 papers

Theory:

| | | | |
|----------|----------------|--------------|--|
| I Year | Semester - I | Paper - I | Inorganic, Organic, Physical and General chemistry |
| | Semester - II | Paper - II | Inorganic, Organic, Physical and General chemistry |
| II Year | Semester - III | Paper - III | Inorganic, Organic, Physical and General chemistry |
| | Semester - IV | Paper - IV | Inorganic, Organic, Physical and General chemistry |
| III Year | Semester - V | Paper - V | Inorganic, Organic, Physical and General chemistry |
| | | Paper - VI | Elective: Instrumental Methods of Analysis |
| | Semester - VI | Paper - VII | Inorganic, Organic, Physical and General chemistry |
| | | Paper - VIII | Elective: Medicinal chemistry |

Laboratory course:

| | | | |
|----------|---------------|-------------|---|
| I Year | Semester - I | Paper - I | Qualitative Analysis-Semi micro analysis of mixtures |
| | Semester - II | Paper - II | Quantitative Analysis |
| II Year | Semester- III | Paper - III | Organic Synthesis |
| | Semester- IV | Paper - IV | Quantitative Analysis of Organic Compounds |
| III Year | Semester - V | Paper - V | Organic synthesis and TLC |
| | | Paper - VI | Experiments in Physical chemistry - I |
| | Semester- VI | Paper- VII | Quantitative and Spectral Analysis of Organic Compounds |
| | | Paper -VIII | Experiments in Physical chemistry - II |

For I and II Years, each section has 04 hours theory and 12 hours practical per week. For III year 6 hours theory and 12 hours practical.

Government Degree College for Women, Wanaparthy – 509103
Time Table for B.Sc (BZC & MPC) - I Yr, II Yr & III Yr : 2019 – 2020

| DAY | Year | I Period | II Period | III Period | 12:30 to 1:00 | IV Period | V Period | VI Period |
|-----------|--------|---------------|----------------|----------------|---------------------|--------------|--------------|--------------|
| | | 9:30 to 10:30 | 10:30 to 11:30 | 11:30 to 12:30 | | 1:00 to 2:00 | 2:00 to 3:00 | 3:00 to 4:00 |
| MONDAY | I Yr | Practical C3 | | SS / KJ | Lunch Break | | | |
| | II Yr | | | | | KJ / DR | | |
| | III Yr | | | DR | | Practical C3 | | |
| TUESDAY | I Yr | Practical C1 | | | | | | |
| | II Yr | | | KJ / DR | | | | |
| | III Yr | | DR | | | Practical C1 | | |
| WEDNESDAY | I Yr | Practical C2 | | SS / KJ | | | | |
| | II Yr | | | | | | KJ / DR | |
| | III Yr | | DR | | | Practical C2 | | |
| THURSDAY | I Yr | | | | | | SS / KJ | |
| | II Yr | Practical C3 | | KJ / DR | | | | |
| | III Yr | | SS | | | | Practical C3 | |
| FRIDAY | I Yr | | | | | | | |
| | II Yr | Practical C1 | | | | | | |
| | III Yr | SS | | | | Practical C1 | | |
| SATURDAY | I Yr | | | SS / KJ | | | | |
| | II Yr | Practical C2 | | | | | | |
| | III Yr | SS | | | Practical C2 | | | |

DR – Dr. K. Damodar Reddy

SS - S. Swamy

KJ – Dr. K. Jagadeeswaraiiah

FACULTY PROFILE:

At present 3 (three) faculty members are working in the department. Two of them have got Ph.D Degree from Osmania University and other member has TS SET, M.Phil Degree.

The faculty members are constantly updating themselves with modern method of teaching by attending various seminars and workshops. The department provides excellent learning in chemistry through its dedicated faculty members by means of new teaching and learning methods.

Every year feedback from the students are taken & analyzed and submitted to the principal.

| Sl. No | Name of the staff member | Designation | Qualification | View |
|--------|------------------------------|-------------|----------------------|----------------------|
| 1 | Sri. Dr. K. Damodar Reddy | Lecturer | M.Sc, Ph.D | View |
| 2 | Sri. S. Swamy | Lecturer | M.Sc, M.Phil., SET | View |
| 3 | Sri. Dr. K. Jagadeeswaraiiah | Lecturer | M.Sc, CSIR-JRF, Ph.D | View |

Dr. K. DAMODAR REDDY M.Sc, Ph.D

- Completed M.Sc from Sri Krishnadevaraya University With Organic Chemistry specialization.
- Ph.D from Osmania University.
- Have published four papers in different Journals.
- Have 20 years of undergraduate teaching experience.



- Attended one day National Seminar on “RECENT ADVANCES IN CHEMICAL SCIENCE” at Govt. Degree College for Men Wanaparthy.
- Attended one day work shop on “INSTRUMENTATION” at Govt. Degree College for Men Wanaparthy.
- Participated National conference on “NEW VISTAS IN CHEMISTRY: AN INTER DECSIPLINARY APPROACH” conducted by Palamuru University Dept. of chemistry, Mahabubnagar.
- National Seminar on “RECENT ADVANCES IN CHEMICAL SCIENCE” at Govt. Degree College for Men Wanaparthy. On 11th January 2020.
- Acting as a member of various college committees.
- Guided students study projects.
- Participated Faculty Development Programme on “ADVANCED CONCEPTS FOR DEVELOPING MOOCS” FROM 02-July to 17 – July,2020.Sponsored by Government of India MHRD.

S. SWAMY M.Sc, M.Phil., SET

- Completed M.Sc from Osmania University with Inorganic Chemistry specialization.
- Completed M.Phil degree from Vinayaka mission at Tamilnadu.
- Have qualified TSSET conducted by Osmania University.
- Have 16 years of undergraduate teaching experience.
- Participated one day work shop on “MEDICINAL



PLANTS IN INDIA” conducted by MVS Degree College, Mahabubnagar.

- Acting as a member of various college committees.
- Guided students study projects.



Dr. K. JAGADEESWARAIAH M.Sc, CSIR-JRF, Ph.D

- Completed M.Sc from Osmania University with Physical Chemistry specialization.
- Qualified the Joint **CSIR–JRF** exam in 2008 conducted by CSIR, Government of India.
- Ph.D from Osmania University.
- [Design of solid catalysts for the selective conversion of glycerol](#)
- Have 2 years of post graduate and 6 years of undergraduate teaching experience.
- Acting as a member of various college committees.
- Guided students study projects.

List of Publications:

1. [The role of tungsten oxide species supported on titania catalysts for the synthesis of glycerol carbonate from glycerol and urea](#)

K. Jagadeeswaraiyah, Ch. Ramesh Kumar, A. Rajashekar, A. Srivani, N. Lingaiah.
Catal Lett 146 (2016) 692–700.

2. [Incorporation of Zn²⁺ ions into the secondary structure of heteropoly tungstate: catalytic efficiency for synthesis of glycerol carbonate from glycerol and urea](#)

K. Jagadeeswaraiyah, Ch. Ramesh Kumar, P. S. Sai Prasad and N. Lingaiah
Catalysis science and technology 4 (2014) 2969–2977.

3. [Synthesis of glycerol carbonate from glycerol and urea over tin-tungsten mixed oxide catalysts](#)

K. Jagadeeswaraiiah, Ch. Ramesh Kumar, P. S. Sai Prasad and N. Lingaiah

Applied Catalysis A: General 469 (2014) 165– 172

4. [Samarium-exchanged Heteropoly Tungstate: An Efficient Solid Acid Catalyst for the Synthesis of Glycerol Carbonate from Glycerol and Benzoylation of Anisole](#)

Ch. Ramesh Kumar, **K. Jagadeeswaraiiah**, P. S. Sai Prasad and N. Lingaiah

ChemCatChem 2012, 4, 1360 – 1367.

5. [Catalytic hydrogenolysis of biodiesel derived glycerol to 1, 2-propanediol over Cu-MgO catalysts](#)

M. Balaraju, **K. Jagadeeswaraiiah**, P.S. Sai Prasad, N. Lingaiah

Catalysis science and technology, 2012, 2, 1967–1976.

6. [Synthesis of glycerol carbonate by transesterification of glycerol with dimethyl carbonate over Mg/Al/Zr catalysts](#)

M. Malyaadri, **K. Jagadeeswaraiiah**, P.S. Sai Prasad, N. Lingaiah

Applied Catalysis A: General 401 (2011) 153–157.

7. [Selective esterification of glycerol to bioadditives over heteropoly tungstate supported on Cs-containing zirconia catalysts](#)

K. Jagadeeswaraiiah, M. Balaraju, P.S. Sai Prasad, N. Lingaiah;

Applied Catalysis A: General 386 (2010) 166–170.

8. [Acetylation of glycerol to synthesize bioadditives over niobic acid supported tungstophosphoric acid catalysts](#)

M. Balaraju, P. Nikhitha, **K. Jagadeeswaraiiah**, K. Srilatha, P.S. Sai Prasad, N. Lingaiah;

Fuel Processing Technology, 91 (2010) 249-253.

Poster presented at symposiums

1. Tin-Tungsten mixed oxide: An effective solid acid catalyst for synthesis of glycerol carbonate from glycerol and urea (*Poster presentation*)
Ch. Ramesh kumar, **K.Jagadeeswaraiah**, P. S. Sai Prasad, N. Lingaiah
7th International Symposium on Acid-Base Catalysis Tokyo, Japan.
2. Synthesis of glycerol carbonate from glycerol and dimethyl carbonate over Mg/Al/La catalyst (*Poster presentation*)
K.Jagadeeswaraiah, P. S. Sai Prasad, N. Lingaiah
21st National Symposium on Catalysis, ICT, Hyderabad, India.
3. Vapor phase hydrogenolysis of glycerol over alumina supported bi metallic catalysts (*Poster presentation*)
V. Rekha, **K. Jagadeeswaraiah**, P.S. Sai Prasad, N. Lingaiah
2nd Indo-German symposium, Green chemistry and catalysis for sustainable development, Institute of Chemical Technology, Matunga, Mumbai, India October 2012.
4. Glycerol into value added chemicals (*Poster presentation*)
M. Balaraju, **K. Jagadeeswaraiah**, M. Malyaadri, P.S. Sai Prasad, N. Lingaiah
International Conference on Recent trends in Renewable Energy Resources, IGNA, ICT, Hyderabad, India, January 2011.
5. Synthesis of glycerol carbonate from glycerol and dimethyl carbonate over Mg/Al/Zr catalyst (*Poster presentation*)
M. Malyaadri, **K.Jagadeeswaraiah**, M. Balaraju, P. S. Sai Prasad, N. Lingaiah
20th National Symposium on Catalysis, IIT, Chennai, India, December, 2010.
6. Synthesis of glycerol carbonate from glycerol and urea over heteropoly tungstate on SnO₂ Catalysts. (*Poster presentation*)
K. Jagadeeswaraiah and N. Lingaiah
National Seminar on “RECENT ADVANCES IN CHEMICAL SCIENCE” at Govt. Degree College for Men Wanaparthy. On 11th January 2020.

STRENGTH PARTICULARS AND STUDENT PROFILE:

The following is the strength and Social Status of the Students of the Chemistry Department

COURSE WISE SOCIAL STATUS (2019-20)

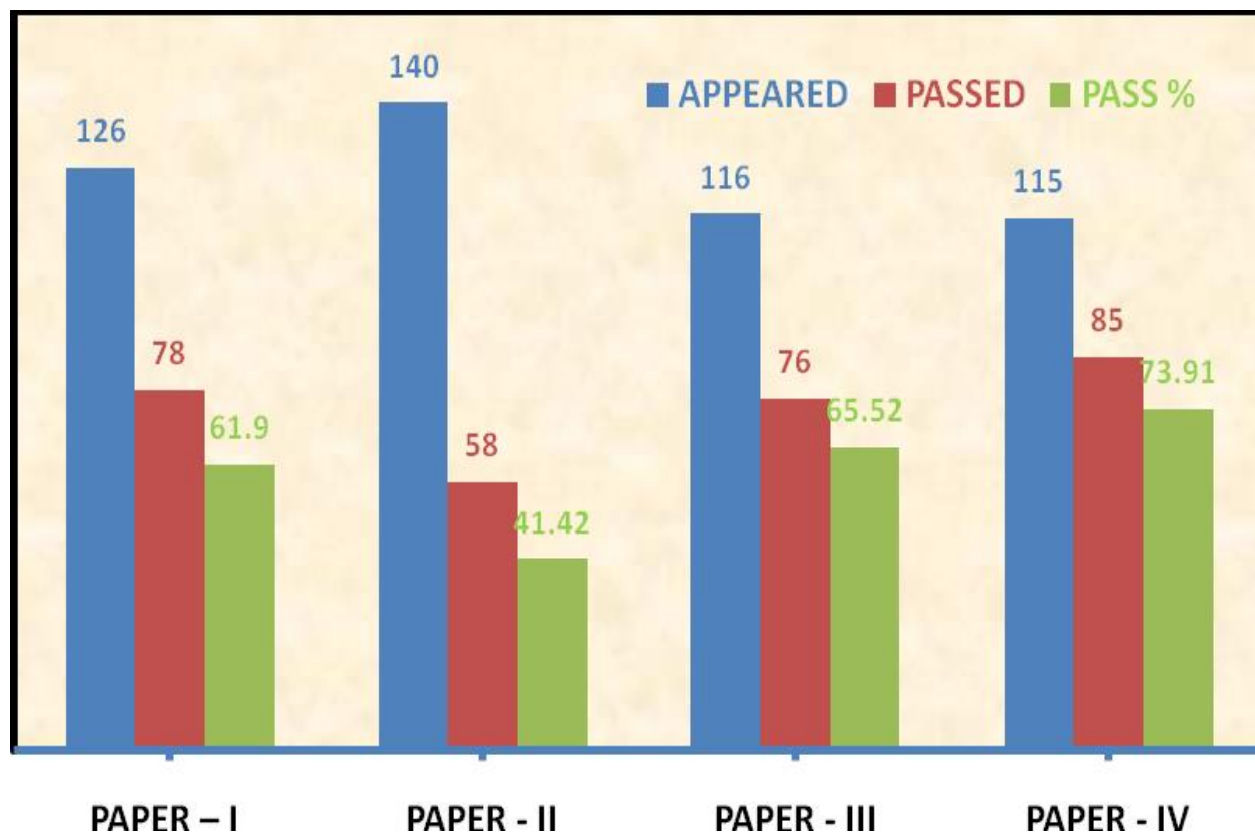
| Course | Year | Total Students | No. of students belonging to | | | | | | | | |
|----------|-------------|----------------|------------------------------|----|------|------|------|------|------|--------|----------|
| | | | SC | ST | BC | | | | | Others | Minority |
| | | | | | BC-A | BC-B | BC-C | BC-D | BC-E | | |
| B.Sc MPC | I Year | 19 | 2 | 1 | 5 | 2 | 0 | 8 | 0 | 1 | 0 |
| | II Year | 36 | 5 | 1 | 8 | 4 | 0 | 14 | 3 | 1 | 0 |
| | III Year | 35 | 6 | 5 | 4 | 7 | 0 | 10 | 2 | 1 | 0 |
| B.Sc BZC | I Year EM | 82 | 9 | 4 | 14 | 12 | 0 | 24 | 13 | 6 | 0 |
| | I Year TM | 59 | 17 | 1 | 11 | 12 | 0 | 14 | 1 | 3 | 0 |
| | II Year EM | 65 | 10 | 3 | 12 | 11 | 1 | 18 | 9 | 1 | 0 |
| | II Year TM | 69 | 12 | 0 | 11 | 12 | 0 | 30 | 2 | 2 | 0 |
| | III Year TM | 42 | 9 | 3 | 6 | 5 | 0 | 15 | 3 | 1 | 0 |

RESULT ANALYSIS:

ACADEMIC YEAR: 2015 – 16

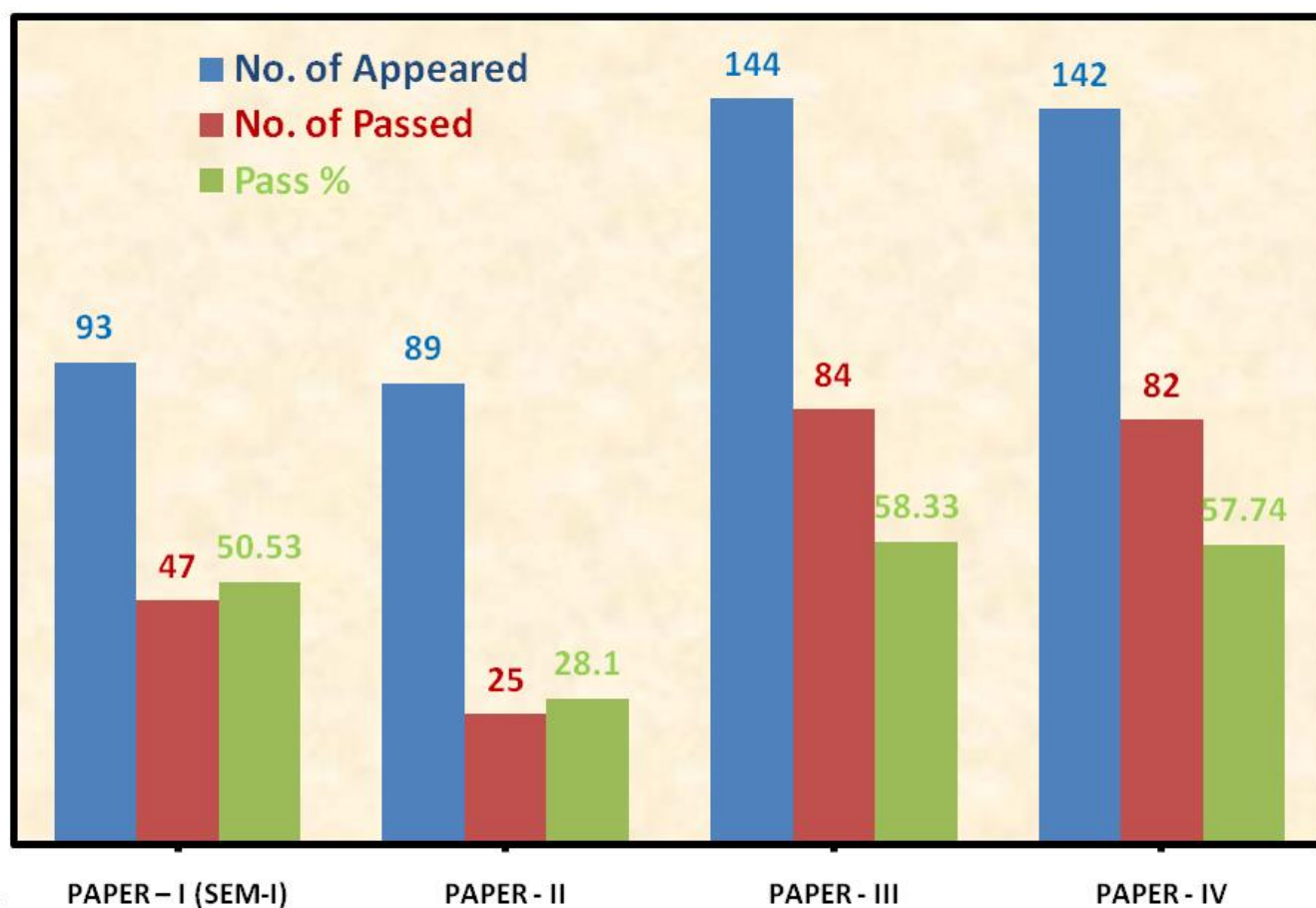
| PAPER | APPEARED | PASSED | PASS % |
|-------------|----------|--------|--------|
| PAPER - I | 126 | 78 | 61.9 |
| PAPER - II | 140 | 58 | 41.42 |
| PAPER - III | 116 | 76 | 65.52 |
| PAPER - IV | 115 | 85 | 73.91 |

GRAPHICAL REPRESENTATION



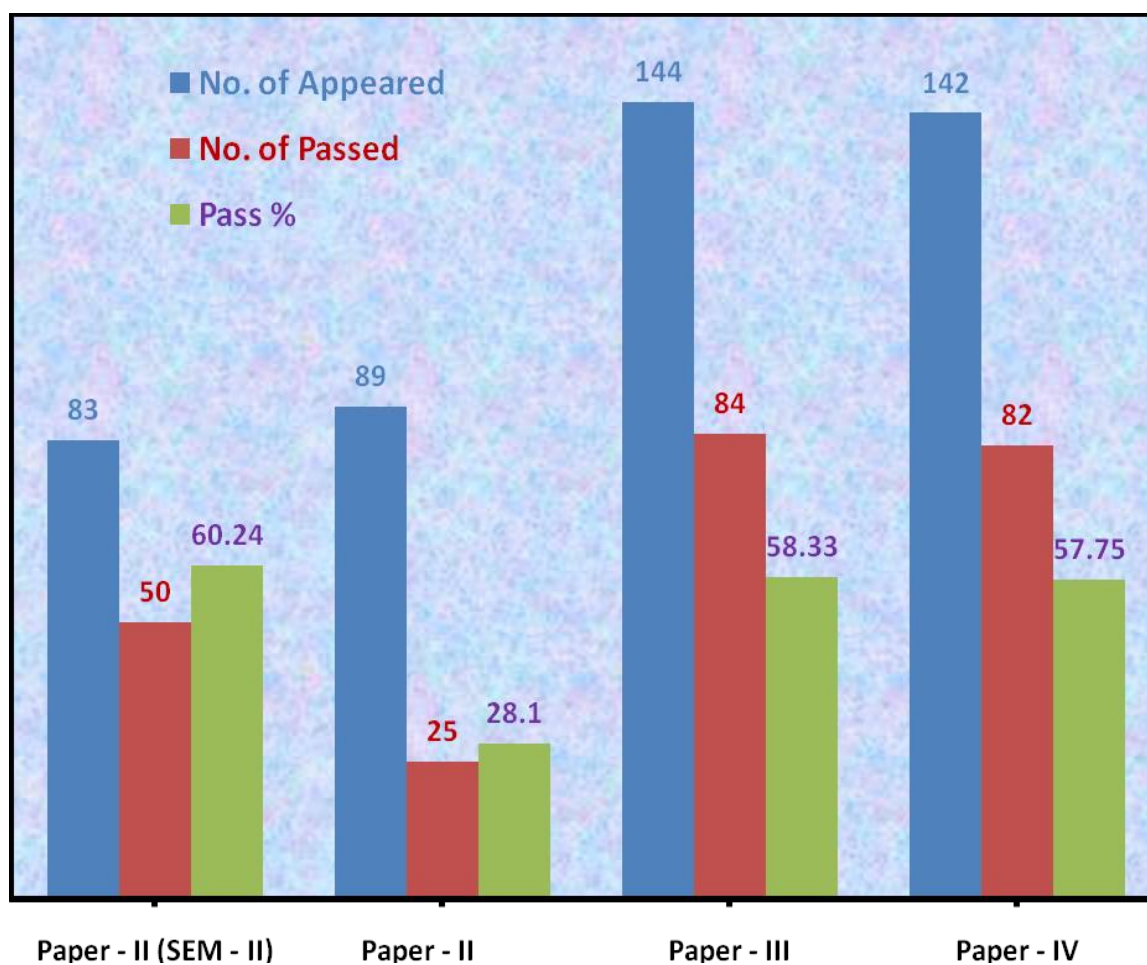
ACADEMIC YEAR: 2016 – 17

| PAPER | APPEARED | PASSED | PASS % |
|-------------------|-----------------|---------------|---------------|
| PAPER – I (SEM-I) | 93 | 47 | 50.53 |
| PAPER - II | 89 | 25 | 28.1 |
| PAPER - III | 144 | 84 | 58.33 |
| PAPER - IV | 142 | 82 | 57.74 |

GRAPHICAL REPRESENTATION

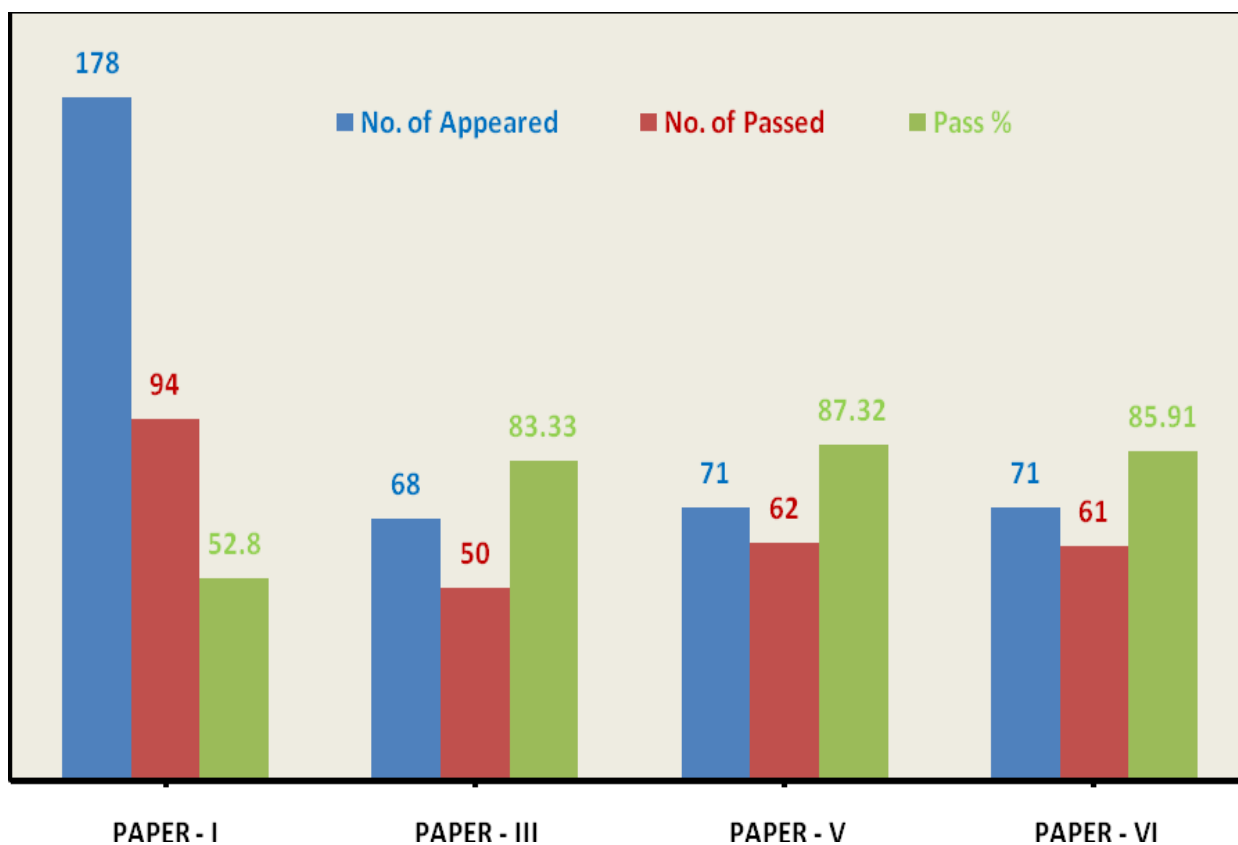
ACADEMIC YEAR: 2017 – 18

| PAPER | APPEARED | PASSED | PASS % |
|---------------------|-----------------|---------------|---------------|
| PAPER – II (SEM-II) | 83 | 50 | 60.24 |
| PAPER - II | 89 | 25 | 28.1 |
| PAPER - III | 144 | 84 | 58.33 |
| PAPER - IV | 142 | 82 | 57.75 |



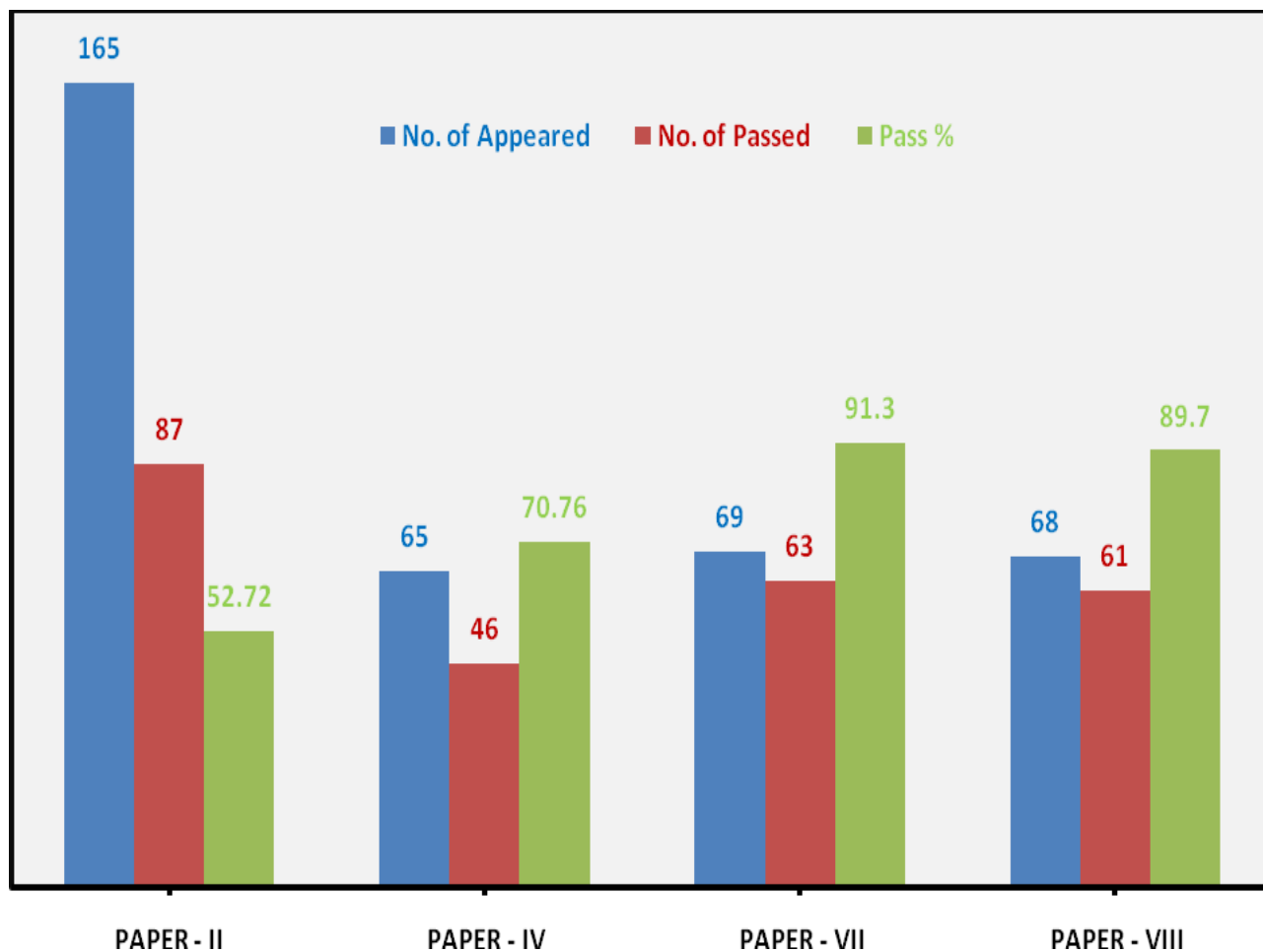
ACADEMIC YEAR: 2018 – 19**SEMESTER - I, III and V December - 2018**

| PAPER | APPEARED | PASSED | PASS % |
|--------------------|-----------------|---------------|---------------|
| PAPER - I | 178 | 94 | 52.8 |
| PAPER - III | 68 | 50 | 83.33 |
| PAPER - V | 71 | 62 | 87.32 |
| PAPER - VI | 71 | 61 | 85.91 |

GRAPHICAL REPRESENTATION

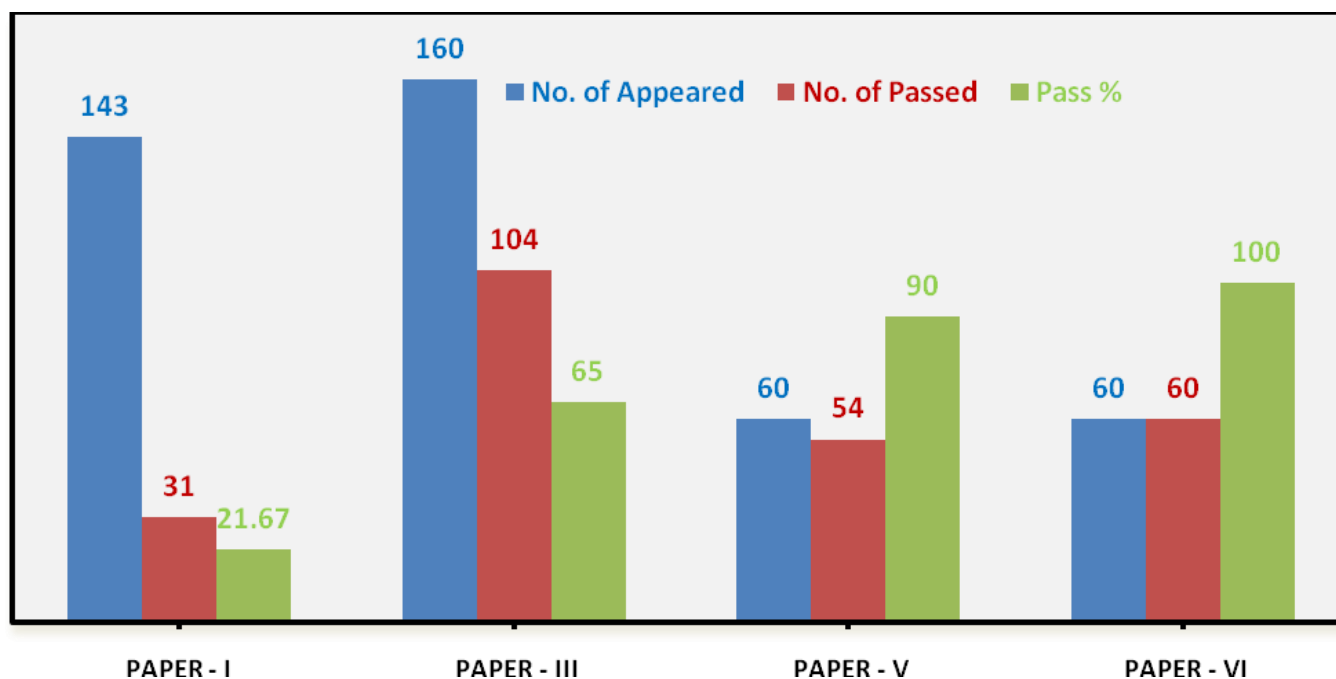
SEMESTER - II, IV AND VI May/June – 2019

| PAPER | APPEARED | PASSED | PASS % |
|--------------|-----------------|---------------|---------------|
| PAPER - II | 165 | 87 | 52.72 |
| PAPER - IV | 65 | 46 | 70.76 |
| PAPER - VII | 69 | 63 | 91.3 |
| PAPER - VIII | 68 | 61 | 89.7 |

GRAPHICAL REPRESENTATION

ACADEMIC YEAR: 2019 – 20**SEMESTER - I, III and V December - 2019**

| PAPER | APPEARED | PASSED | PASS % |
|-------------------|-----------------|---------------|---------------|
| PAPER - I | 143 | 31 | 21.67 |
| PAPER - II | 160 | 104 | 65 |
| PAPER – V | 60 | 54 | 90 |
| PAPER – VI | 60 | 60 | 100 |

GRAPHICAL REPRESENTATION

TEACHING LEARNING EVALUATION:

- Department of Chemistry follows the syllabus and other curricular aspects framed by Palamuru University, Mahabubnagar.
- The teaching staff has freedom to adopt their own teaching methods, innovations and teaching modules to make the students understand the topics in their respective papers.
- Students are encouraged to participate in group discussions, seminars, Quiz and elocution competitions.
- 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 and blood donation camp etc.

TEACHING

- The teaching involves mainly lecture, student centric and discussion methods supplemented by seminars.
- In this process models, charts, power point presentation (CDs), OHP sheets are used.
- In the beginning of each academic year the annual academic plans are prepared by every lecturer. The syllabus is covered as per the academic plan.
- Teaching dairy and teaching notes are maintained by every staff member.
- Study material is supplied to the students.

- Students are encouraged to participate in seminars, quiz, group discussions conducted by the lecturers in their respective classes.
- The educationally backward students in each class are identified and are given Remedial coaching.
- Students have been encouraged to collect different clippings related to the subject from newspapers and magazines.
- E – Lessons: Students are encouraged to watch MANA TV programmes.
- Study material for some of the topics in the syllabus is downloaded from the internet and is supplied to the students and also kept in departmental library for ready reference.

ADDITIONAL CURRICULAR MODULES:

The following additional topics are in the curriculum for more exposure of the students.

Subject:

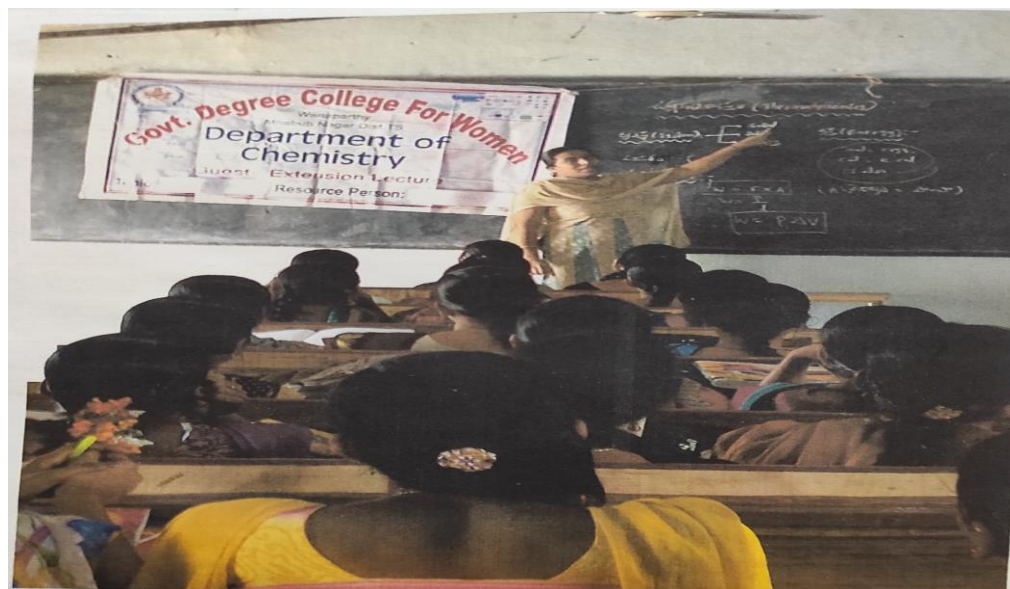
- a) Identification of chemical structure by spectroscopy.
- b) Theories of Pericyclic reaction.
- c) d – Orbital splitting pattern in different geometry of complexes.
- d) Uses of Grignard reagent in Organic synthesis.

LEARNING:

- The students are encouraged to read text books from the college main library as well as the department library and the discuss difficult topics with the staff members.
- The slow learners are identified and given remedial classes. Study material has been supplied on some selected topics.
- Average students are encouraged to write assignments on the topics useful for the university examinations.
- The bright students are encouraged to undertake study projects.

EXTENSION AND GUEST LECTURERS:

| S.No. | Date | Name of the Lecturer | Topic covered |
|-------|------------|---|---|
| 1 | 28/08/2015 | C. Prasanna Laxmi Lecturer in chemistry Sri Vani Degree College, Wanaparthy. | Thermodynamics |
| 2 | 09/08/2016 | K Padmavathi, Lecturer in Chemistry MVS GDC MBNR. | Chromatography |
| 3 | 11/09/2019 | G. Jayapal, Lecturer in Chemistry Gayathri Degree College, Wanaparthy. | General Chemistry |
| 4 | 23/02/2019 | Dr. K. Jagadeeswaraiah, Lecturer in Chemistry GDC Pebbair. | SN ¹ , SN ² Reactions |





CLASS ROOM SEMINARS:

To improve the presentation skills of the students, we are arranging the seminars regularly.

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











LIBRARY AS LEARNING RESOURCE:

- ✚ Apart from the huge central library, the department has a library textbooks and rare collection of reference books and laboratory manuals. These books and manuals are lent to the students, which will be an additional reading material to them.
- ✚ The department has over head projector (OHP) which will be used for delivering extension lecturers and additional inputs.

EVALUATION:

- ✚ The performance of the students is evaluated through unit tests, half-yearly, assignments and seminars. A pre-final examination at the end of the academic year improves final performance level of the students.
- ✚ The average pass percentage of chemistry in the university examination is more than average university results.

RESEARCH CONSULTANCY AND EXTENSION:

The faculty of our department reading research journals to enrich their research knowledge and to know the latest knowledge in the subjects. The faculty also published the research articles/papers in various national and international journals.

Promotion of Research: Study/Group Projects:

Every year faculty of the Department giving study projects to the meritorious students dividing into groups.

The objectives of the study projects are

- i) Enrich the student's knowledge
- ii) Hands on experience

The following study projects have done by the students under the guidance of the faculty members.

1. Study project on "Preparation of various chemical molecules using plastic balls"
2. Study project on collection of "Pare clippings related to chemistry"
3. Study project on "Preparation of atomic orbitals using thermacoal sheets"
4. Study project on Identification of "Organic molecules using spectral data"
5. Study project on "Collection of chemical names present in house hold products"
6. Study project on a brief history and development of periodic table.
7. Study project on Water analysis.

8. Study project on green chemistry a renewable fuel-biodiesel.
9. Study project on Determination of residual chlorine.
10. Study project on FOOD ADULTERATION-A STUDY IN VARIOUS HOUSEHOLDS OF GDC (W) WANAPARTHY STUDENTS.

INFRASTRUCTURE AND LEARNING RESOURCES:

The department of chemistry consists of 2 well – equipped labs catering to the needs of the students.

FREDICK KEKULE LAB for Semi Micro Analysis & Organic lab

MARIE CURY LAB for Volumetric Analysis & Analytical lab

In addition to these labs, there is well furnished staff room. Enough equipment is available for each student to do practical individually.

- | | |
|--------------------------|------------------------------------|
| 1. Conduct meters | 5. Centrifuges |
| 2. P ^H Meters | 6. Simple Balance |
| 3. Colorimeters | 7. Digital Balance |
| 4. Calorimeters | 8. Audio Visual Equipment like OHP |
1. Chemistry Lab Glassware Pipette, Burette, Flask..... ect.

LIBRARY AS LEARNING RESOURCE:

- ❖ Apart from the huge central library, the department has a library of textbooks and rare collection of reference books and laboratory manuals. These books and manuals are lent to the students, which will be an additional reading material to them.
- ❖ The department has an overhead projector (OHP) which will be used for delivering extension lectures and additional inputs.

STUDENT SUPPORT AND PROGRESSION:

- The department maintains remedial coaching classes for academically backward students and their progress is regularly maintained through tests.
- Department conducts M.Sc (chemistry) entrance coaching.
- Every year almost 10 students get PG seats in various Universities.
- Some of our students are pursuing higher education such as PG in different Universities.
- The department encourages the student to participate in placement drives conducted by GDC (men) Wanaparthy through TSKC for DR.Reddy's laboratories Hyderabad.
- Few students are working as teachers in various institutions.
- The students of recent past have joined various courses like B.Ed, M.Sc.

GOVERNANCE LEADERSHIP AND MANAGEMENT:

Organization and management:

- The department functions under the supervision of the principal, through the head of the department.
- The head of the department looks after day - to - day activities of the department.
- Periodical meetings are held with the staff of discuss departmental activities and democratic are taken and implemented.
- In addition to teaching work, the faculty looks after the admissions, examination and other related works.
- Faculty of the department prepares the annual action plan at the start of the academic year based on the academic calendar supplied by the commissionerate of Collegiate Education.
- Faculty frequently assembles and discusses the events conducting for students and recorded in minutes register.
- Our faculty members are working in various committees as members such as a TSKC, WEC, Admission, Physical education, MANA TV, NSS committees.

INNOVATIVE PRACTICES AND FUTURE PLANS:

Our students prepare a **CLOCK** with **ELEMENTS** (according to atomic number) instead of numerical numbers, which is explained to Commerce and Arts students of the college and also planned to distribute to local schools and colleges to create awareness in chemistry.



➤ Our students prepared the **Periodic table of the elements** in picture.



- Our students prepared the **Chlorophyll** in picture.



- Our students prepared the **Heme** in picture.



- The students are encouraged to participate in extra - curricular activities like AIDS awareness programs and blood donation camps through NSS.
- Previous question papers drilling.
- Assignments to the students.
- Remedial classes to the slow learners.
- Explaining day to day changes in the science field to enrich the knowledge of students using power point presentations and paper cuttings.
- Providing the study material to the benefit of slow learner students.

Participation in Institutional Social Responsibility (ISR) and Extension activities:

Students & staff of department participate in the activities like, Ozone protection, Blood donation, AIDS awareness programs, cleaning campaign, through the programmes like NSS. Department also designed a plant for rain water conservation. All distilled water demand is fulfilled using this water.





Earth Nilayam, Phno-42-24474723, Mandi hills colony, Wanaparthy, Telangana 509103, India

| | Decimal | DMS | |
|-----------|-----------|-------------|------|
| Latitude | 16.360518 | 16°21'37" N | 33°C |
| Longitude | 78.057791 | 78°3'28" E | 91°F |





STRENGTH OF THE DEPARTMENT:

- The department has dedicated faculties.
- Study material and question bank supplied to the slow learner students.
- Study projects and seminars presented by the students every year.
- Regular field trips are arranged to students for industrial exposure.
- Additional inputs such as paper clippings (subject wise and General) and internet Video lectures, power point presentation have been providing for students to enrich their knowledge.
- Group discussion and Quiz's (subject wise and General) are conducting in regular manner.

HIGHLIGHTS OF THE DEPARTMENT:

- ❖ Our students got II- Prize in State level JIGNASA-Student study project on FOOD ADULTERATION-A STUDY IN VARIOUS HOUSEHOLDS OF GDC (W) WANAPARTHY STUDENTS.
- ❖ The Department is producing GOOD results every year.
- ❖ Every year top three highest marks students in each paper are awarded with various books in order to encourage them.
- ❖ The old students of this college who are completed B.Ed, M.Sc(chemistry) are working as teachers and lecturers in various institutions.
- ❖ The students of recent passed joined its various courses like B.Ed., M.Sc.
- ❖ Every year almost 10 students got PG seats in various Universities.
- ❖ It's a matter of pride that students studied here have been highly placed in society.





WEAKNESS OF THE DEPARTMENT:

- ❖ Research lab not established.
- ❖ Lack of modern lab equipment satisfactorily.
- ❖ Infrastructure of laboratories, shortage of class rooms and permanent teaching faculty.
- ❖ No. of books in the departmental library are insufficient.

FUTURE PLAN OF THE DEPARTMENT:

- ✓ To develop the labs with latest equipment.
- ✓ To start the modern research facility to initiate the collaborative research with reputed industries.
- ✓ To initiate the student exchange programme with the National / International Institute.
- ✓ To start the interdisciplinary courses
- ✓ To conduct National Seminars.
- ✓ To Introduce a Certificate a course in Analytical Techniques.
- ✓ To encourage self - employment system.
- ✓ To awareness a campaign on Beti Bachao-Beti Padhao.
- ✓ To conduct a campaign on plastic combustion in Wanaparthi and surrounding village.

Challenges:

- To increase the collaboration with industries for the placement of students.
- To make aware the students about competitive exams related to chemistry & to develop their scientific view.
- To motivate the students who are having weak socio-economical background for taking Higher education
- To enhance the research activity in the department.

THANK YOU