

# <u>Index</u>

S.No	Particulars	Page No
1	History of College &Department	
2	Vision and Mission of the Department	
3	Faculty Profile	
4	Basic Information	
5	Extended Profile	4.
6	Result Analysis	
7	SWOC Analysis & Future Plans of the Department	
8	Criterion -I Curricular Aspects	
9	Criterion -II Teaching, Learning & Evaluation	
10	Criterion -III Research, Innovation & Extension	
11	Criterion -IV Infrastructure and Learning Recourses	
12	Criterion -V Student Support Services	
13	Criterion - VI Governance & Leadership	
14	Criterion - VII Institutional Values and Best Practices	
15	Departmental Activities	
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#### Brief History of College:

Telangana Tribal Welfare Residential Degree College (Boys), Manuguru was established in the state of Telangana under aegis of Telangana Tribal Welfare Residential Educational Institutional Society, Tribal Welfare, Gurukulam as part of the KG-PG Free Education Policy of the Government of Telangana during the year 2016/2017. Tribal Welfare were launched to cater the higher education needs of the students of under privileged and unprivileged sections of the society and to enhance their confidence levels acquiring the highest level of academic excellence coupled with excellent communication skills and the other interpersonal skills to transform themselves in to the best citizens of the nation.

Institution Website: <u>https://www.ttwrdcs.ac.in/Manuguru/</u>

Brief History of Chemistry Department:

From the inception of this college Chemistry Department is functioning with BSc (BZC) and BSc (MPC).

The Department of Chemistry has well experienced and dedicated faculty who works for the betterment of the students. The Department undertakes the curricular, co-curricular and extra-curricular activities as per the departmental action plan which is prepared every year at beginning of the academic year.

Department undertakes all the student's developmental activities like student seminars, conducting quiz competitions, field trips, extension lectures by the academicians and industry persons.

The department also encourages students to undertake study projects, which gives them first-hand experience of subject knowledge and conceptual understanding through experiential learning.

#### Vision and Mission of the Department:

#### Vision:

To build foundation for excellence and spur development of the institution as a premier department, by nurturing enthusiasm, interests and passion, in the study of chemistry as a part of curricula.

#### **Mission:**

- > To contribute to the growth and development of students and society through promotion of teaching, learning and knowledge.
- > Developing the overall personality of students in a holistic manner
- Nurturing students to face the realities of life and real-life challenges.
- Enhancing the employability of the Chemistry Students by providing motivating environment for availing their full potential.
- Inculcate moral and ethical values and developing social consciousness among students.

## **Profile of Present Working Staff**



Name: M Kavitha Designation: Degree Lecturer Qualification: IMSc SET Date of Joining: -08-2019 Teaching Experience: 5 Years



Name: T Karun Designation: Guest Faculty Qualification: MSc B.Ed Date of Joining: 05-09-2017 Teaching Experience: 9 Years <u>Seminars/ Workshops/ Webinars/ Orientation Programmes attended during the</u> <u>last five years:</u>

		Date	Course/Programme Attended	Name of the Faculty	S. No
nt Degree Yellandu	Government College Yel	25.01.2022	Webinar on Importance of Voter's Day	T KARUN	1
l Property India nt of India romotion try and Trade	Intellectual P Office, In Government Dept for Prot of Industry Internal T	03.04.2023	IP AWARENESS/ TRAINING PROGRAM	T KARUN	2
l r t	Intellectual Office, Governmen Dept for Pr of Indust Internal	03.04.2023	IP AWARENESS/ TRAINING PROGRAM	T KARUN	2

## **BASIC INFORMATION - ACADEMIC INFORMATION:**

## Details of Programmes offered (Current year 2022-23)

Programme Level	Name of Programme	Duration	Qualification	Medium	No of Students Admitted
UG	BSc (BZC)	36 Moths	Inter/equivalent	English	13
Position Det	ails of Faculty a	nd staff in	the College (Curre	ent year)	anno

# Position Details of Faculty and staff in the College (Current year)

Designation	Sanctioned	Filled
Professors	0	0
Associate Professors	0	0
Assistant Professors	0	0
Regular faculty	2	1
Guest Faculty		1

## Enrolment of students during the current academic year (2022-23)

Programme	Male	Female	Others	Total
UG	13	NA	0	13

## Details of Students admitted to the BSc during the last four academic years

Category	2021-2022	2020-2021	2019-2020	2018-2019
Male	41	61	58	25
Female	NA	NA	NA	NA
Total	41	61	58	25

## Caste wise student admissions

	YEAR	SC	ST	BC	OC	Divyangjan	TOLAI
	2022-23	00	13	00	0	0	13
-	2021-22				0	0	41
-	2020-21	05	50	06	0	0	61
	2019-20	10	38	10	0	0	58
	2018-19	08	14	03	0	0	25
					2		
		× 0		smi			

## **Extended profile**

#### 1.1 Number of programmes offered year wise for the last five years

01 02 02 02 01

The following courses are sanctioned by Kakatiya University as per affiliation Man <u>orders</u>

2022-2023

S. No	Name of the Course	Medium	Intake
1	BSc (BZC)	English	40

## <u>2021-2022</u>

S. No	Name of the Course	Medium	Intake
1	BSc (BZC)	English	40
2	BSc (MPC)	English	40

## <u>2020-2021</u>

		5	
<u>2020-20</u>	<u></u>		
S. No	Name of the Course	Medium	Intake
1	BSc (BZC)	English	40
2	BSc (MPC)	English	40

<u>2019</u>-20

S. No	Name of the Course	Medium	Intake
	BSc (BZC)	English	40
2	BSc (MPC)	English	40

## <u>2018-2019</u>

S. No	Name of the Course	Medium	Intake
1	BSc (BZC)	English	40

## Number of Students year wise during the last 5 years

2022-2023	2021-2022	2020-2021	2019-2020	2018-2019
78	147	137	119	72

## 2022-2023

. 550			English	10				
Number of Students year wise during the last 5 years								
2022-2023	2021-2022	2020-20	2019-202	20 2018-2019				
78	147	137	119	72				
2022-2023				C Ma.				
Year	BSc (B	ZC)	BSc (MPC)	Total				
I-Year	13		0	13				
ll-Year	19		8	27				
III-Year	12		26	38				
Total	44		34	78				
<u>2021-2022</u>		omis			_			

Year	BSc (BZC)	BSc (MPC)	Total
I-Year	27	14	41
ll-Year	19	35	54
III-Year	28	24	52
Total	74	73	147

<u>2020-202</u>

Year	BSc (BZC)	BSc (MPC)	Total
l-Year	22	39	61
II-Year	30	25	55
III-Year	21	0	21
Total	73	64	137

## <u>2019-2020</u>

Year	BSc (BZC)	BSc (MPC)	Total
l-Year	31	27	58
ll-Year	23	0	23
III-Year	17	21	38
Total	71	48	119
			NIS
<u>2018-2019</u>			Ng <sub>1</sub> .
Voar	$BS_{C}(B7C)$	BSc (MDC)	Total

## <u>2018-2019</u>

Year	BSc (BZC)	BSc (MPC)	Total
l-Year	25	0	25
ll-Year	25	22	47
Total	50	22	72

# Number of outgoing / Final year students year wise during last 4 Years

		2017 20	2010-17
52	21	38	NA
5	2	2 21	2 21 38

## TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (BOYS) MANUGURU

# DEPARTMENT OF CHEMISTRY

ACADEMIC YEAR 2022 - 23 RESULT ANALYSIS

Semester	On Roll	Appeared	Absent	Pass	Failed	Pass %
SEMESTER - I	13	12	1	7	5	58%
SEMESTER - II	13	12	1	6	6	50%
SEMESTER - III	27	26	1	14	12	54%
SEMESTER - IV	26	26	0	19	7	73%
SEMESTER - IV (SEC) (REMEDIAL METHODS OF POLLUTION)	43	42	1	42	0	100%
SEMESTER - V (SPECTROSCOPY & CHROMATOGRAPHY)	38	38	0	33	5	87%
SEMESTER - VI (MEDICINAL CHEMISTRY)	38	38	0	36	2	95%





# TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (BOYS) MANUGURU DEPARTMENT OF CHEMISTRY

ACADEMIC YEAR 2021-22 RESULT ANALYSIS

Semester	On Roll	Appeared	Absent	Pass	Failed	Pass %	
SEMESTER - I	41	34	7	20	14	59%	
SEMESTER - II	40	29	11	20	9	69%	
SEMESTER - III	54	43	11	35	8	81%	
SEMESTER - IV	46	39	7	37	2	95%	
SEMESTER - IV (SEC) (REMEDIAL METHODS OF POLLUTION)	46	39	7	39	0	100%	
SEMESTER - V (SPECTROSCOPY & CHROMATOGRAPHY)	52	52	0	51	1	98%	
SEMESTER - VI (MEDICINAL CHEMISTRY)	52	52	0	49	3	94%	





TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (BOYS) MANUGURU

# DEPARTMENT OF CHEMISTRY

ACADEMIC YEAR 2020-21

RESULT ANALYSIS

Semester	On Roll	Appeared	Absent	Pass	Failed	Pass %	
SEMESTER - I	61	56	5	16	40	29%	
SEMESTER - II	60	54	6	52	2	96%	Y
SEMESTER - III	55	52	3	52	0	100%	
SEMESTER - IV	54	53	1	53	0	100%	
SEMESTER - IV (SEC) (REMEDIAL METHODS OF POLLUTION)	79	77	2	77	0	100%	
SEMESTER - V (P -V)	21	21	0	21	0	100%	
SEMESTER - V (P -VI A) (INSTRUMENTAL METHODS OF ANALYSIS)	21	21	0	21	0	100%	
SEMESTER - VI (P -VII)	21	21	0	21	0	100%	
SEMESTER - VI (P -VIII A) (MEDICINAL CHEMISTRY)	21	21	0	21	0	100%	





TELANGANA TRIBAL WELFARE RESIDENTIAL	DEGREE COLLEGE	(BOYS) MANUGURU
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# DEPARTMENT OF CHEMISTRY

	R	ESULT ANAL	LYSIS			
Semester	On Roll	Appeared	Absent	Pass	Failed	Pass %
SEMESTER - I	58	56	2	53	3	95%
SEMESTER - II	58	54	4	52	2	96%
SEMESTER - III	23	22	1	19	3	86.36
SEMESTER - IV	22	22	0	21	1	95.45
SEMESTER - V (P -V)	38	38	0	38	0	100%
SEMESTER - V (P -VI A) (INSTRUMENTAL METHODS OF ANALYSIS)	38	38	0	38	0	100%
SEMESTER - VI (P -VII)	38	38	0	38	0	100%
SEMESTER - VI (P -VIII A) (MEDICINAL CHEMISTRY)	38	38	0	38	0	100%







## DEPARTMENT OF CHEMISTRY ACADEMIC YEAR 2018-19

		RESULT AN	ALYSIS			
Semester	On Roll	Appeared	Absent	Pass	Failed	Pass %
SEMESTER - I	25	25	0	23	2	92.00
SEMESTER - II	25	24	1	22	2	91.67
SEMESTER - III	47	39	8	39	0	100.00
SEMESTER - IV	39	39	0	37	2	94.87
			•	•		







## DEPARTMENT OF CHEMISTRY ACADEMIC YEAR 2017-18







# SWOC analysis of the department and Future plans

## Strengths:

- Qualified and Experience faculty.
- Dedicated teaching & non-teaching staff is available.
- Faculty actively involved in Administrative work.
- Practical based learning is encouraged with the use of latest ICT and flipped class room methods for effective teaching and learning process.
- Career guidance for the students to pursue the higher education along with other alternative ways of settlement is provided during the three years of their graduation.
- The department has adequate instruments like pH meter, Conductometer, potentiometer, etc

## Weaknesses:

- Insufficient Industry Academia Interaction
- Space is the major constraint in the development.
- We require more number of smart classrooms.
- Lack of basic knowledge in chemistry among the students.

## **Opportunities:**

• Having opportunity to start courses like M. Sc. Chemistry

## 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.

# uture Plans:

The Future plans of the department are:

- To start MSc Chemistry
- To offer certificate course in each semester to enhance the various skills of the students.
- To conduct campus placements with the help of Gurukulam and ITDA Bhadrachalam.

#### **CRITERION** -I

#### Curricular Aspects

The college has an inbuilt mechanism for effective delivery of the curriculum prescribed by the affiliating university i.e. Kakatiya University, Warangal. The University prepares the yearly/semester Almanacs at the beginning of the Academic Year which shall be followed by all the affiliated colleges. In accordance with the University Almanac, the college prepares the Academic Calendars, time-table, teaching plan, lesson plan at the beginning of each year/semester which are strictly followed for effective implementation of the curriculum and the completion of the syllabus. Time table is prepared collectively by all the departments and teaching staff members to ensure that there are no duplications and clashes in the various subjects.

Semester	Course Title	HPW	Credits
Ι	Chemistry Paper-I	4T+3P	5
II	Chemistry Paper-II	4T+3P	5
	Chemistry Paper-III	4T+3P	5
IV	Chemistry Paper-IV	4T+3P	5
IV	Remedial Methods of Pollution - Drinking Water & Soil Fertility	2	2
V	Spectroscopy and Chromatography	4T+3P	5
VI	Medicinal Chemistry	4T+3P	5
23rtm			

### The Regular course Tittles and Hours per week Mentioned here.

## Information of Certificate Courses:

Apart from the regular course the department has adopted a practice of offering Certificate courses for the students of Chemistry once in a year to inculcate and impart the students with practical knowledge on the field of Chemistry.

The details of the certificate courses offered during the last five years are as <u>follow</u>

S. No	Academic Year	Title of the certificate course	Duration	Number of Students Enrolled	Number of Students Completed
1	2018-19	Instrumental Chemistry	30 Hrs	38	38
2	2019-20	ChemSketch and ChemDraw	30 Hrs	38	38
3	2020-21	Chemistry in Daily Life	30 Hrs	21	21
4	2021-22	ChemSketch and ChemDraw	30 Hrs	40	40
5	2022-23	ChemSketch and ChemDraw	30 Hrs	38	38
aculty v	vise Workloa	d elle			

# Faculty wise Workload

	S. No.	Name Of the Faculty	Theory (Hours)	Practical (Hours)	Total (Hours)
	1	M. Kavitha			
	2	T. Karun			
		Total :			
	- Oct				
0	X				

## Curricular Planning and ImplementationCurriculum 2019-20

#### Paper-I

#### Unit-I: (Inorganic Chemistry):

- 1. Chemical Bonding,
- 2. P-Block Elements

#### Unit-II (Organic Chemistry)

- 1. Structural Theory in Organic Chemistry,
- 2. Acyclic Hydrocarbons

#### Unit-III (Physical Chemistry)

1. Atomic structure and elementary quantum mechanics,

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- 2. Gaseous State,
- 3. Liquid State and Solutions

### Unit-IV (General Chemistry)

- 1. General Principles of Inorganic Qualitative Analysis,
- 2. Isomerism,
- 3. Solid State Chemistry

#### Paper-II:

#### Unit-I (Inorganic Chemistry)

- 1. P-Block Elements,
- 2. Chemistry of Zero group elements,
- 3. Chemistry of d-block elements

## Unit-II (Organic Chemistry)

- 1. Halogen Compounds,
- 2. Hydroxy Compounds and ethers,
- 3. Carbonyl Compounds

## Unit-III (Physical Chemistry)

1. Electrochemistry

### Unit-IV (General Chemistry)

- 1. Theory of Quantitative Analysis,
- 2. Stereoisomerism,
- 3. Dilute Solution & Colligative Properties

#### Paper-III

#### Unit-1 (Inorganic Chemistry)

- 1. Chemistry of f-block elements,
- 2. Co-ordination Compounds-I,
- DC Manual 3. Metal carbonyls and Organo metallic Chemistry

#### Unit-II (Organic Chemistry)

- 1. Carboxylic acids and derivatives,
- **2.** Nitro hydrocarbons,
- 3. Amines, Cyanides and Isocyanides

#### Unit-III (Physical Chemistry)

- 1. Thermodynamics -1
- 2. Thermodynamics -2

#### Unit-IV (General Chemistry)

- 1. Evaluation of analytical data,
- 2. Carbanions,
- 3. Phase Rule

#### **Paper-IV**

## Unit-I (Inorganic Chemistry)

- 1. Co-ordination Compounds-II,
- **2.** Bio inorganic Chemistry

## Unit-II (Organic Chemistry)

- 1. Carbohydrates,
- 2. Amino acids and proteins,
- **3.** Heterocyclic Compounds

## Unit-III (Physical Chemistry)

- **1.** Chemical Kinetics,
- 2. Photochemistry

## Unit-III (General Chemistry)

- 1. Theories of bonding in metals,
- 2. Carbanions,
- **3.** Colloids & Surface Chemistry

#### Paper-V (Spectroscopy and Chromatography)

#### Unit-I Molecular spectroscopy

- 1. Rotational spectroscopy,
- **2.** Infra-red spectroscopy,
- **3.** Electronic spectroscopy

#### Unit-II NMR and Mass Spectrometry

- DC Manualun 1. Proton Magnetic Resonance Spectroscopy,
- **2.** Mass Spectrometry

#### Unit-III Separation techniques-I

- 1. Solvent Extraction,
- **2.** Separation techniques-II,
- **3.** Column Chromatography

#### Paper-VI (Medicinal Chemistry) Unit-I

Drugs introduction and Terminology

#### Unit-II

Enzymes and Receptors

#### Unit-III

Synthesis and Therapeutic Activity of Drugs

## **Unit-IV**

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Molecular Messengers, Vitamins and Micronutrients

## Student Performance and Learning Outcomes

COURSE OUT COMES:

## SEMESTER I, PAPER I, 4 Credits

The students will learn the following

CO 1: Inculcate industrial applications of carbides, silicones, acidity and reactivity of boron Compounds.

CO 2: Overview of periodic table and P block elements.

CO 3: Detail understanding of various compounds of elements of p-block and theoretical knowledge to perform semi micro analysis i.e. Identification of inorganic salts

CO 4: Understand the concept of nature of chemical bond

CO 5: Understand alkanes, alkenes, alkynes, understand the aromaticity of organic Compounds

CO 6: Understand the concept of stereochemistry. Understand different types of reaction Mechanism

## SEMESTER II, PAPER II, 4 Credits

The students will learn the following

CO 1: Understand reactivity and structures of oxides, oxy acids, structures of inter halogen compound zero group elements, d -block elements

CO 2: Understand the structure and chemical bonding and behavior in aryl, alkyl halides, alcohols, phenols and carbonyl compounds

CO 3: Understand the theories and laws of electrochemistry, electrolytic cells, electrochemical cells applications batteries industry. Conductometric titrations, emf etc

CO 4: Volumetric analysis, and gravimetric analysis. Estimation of carbonate, bicarbonate, copper etc

#### SEMESTER III, PAPER III, 4 Credits

The students will learn the following

CO 1: Understand the chemistry of f-block elements, complex compounds, metal carbonyls and Organo metallic compounds and their applications.

CO 2: Understand the chemistry of carboxylic acids and their derivatives, active methylene compounds and nitro compounds. Industrial and research importance, Importance of carbanions -I

CO 3: Understand the thermodynamics of chemical reactions, phase rule.

CO 4: Laboratory synthesis of some organic compounds.

# SEMESTER IV, PAPER IV, 4 Credits

The students will learn the following

CO 1: Student able to understand the reaction mechanism of inorganic complexes, inert and labile nature, bio inorganic chemistry Student able to understand the reaction mechanism of inorganic Complexes, inert and labile nature, bio inorganic chemistry i.e. importance of micro and macro nutrients in human.

CO 2: Student able to understand the chemistry and reactions of carbohydrates, amino acids and Hetero cyclic compounds. Their importance in medical and biological fields, Importance of carbanions -II

CO 3: Student able to understand the chemistry and reactions of carbohydrates, amino acids and Hetero cyclic compounds. Their importance in medical and biological fields, Importance of carbanions -II

CO4: Functional group analysis

#### SEMESTER V, PAPER V, 4 Credits

The students will learn the following

CO 1: Students are able to determine the functional groups present in molecule structure by applying infrared

CO 2: Students can explain the maximum absorption wavelength by of molecules using UV Spectroscopy and can find out the chemical environment of molecule from chemical shift values of NMR Spectroscopy

CO 3: Students are able to separate the compounds from the given mixture by solvent extraction method and separation techniques.

CO 4: Students determine the concentration of KMno4 Solution by using Jepartment of chemistry Colorimetry

## **CRITERION -II**

## Teaching, Learning & Evaluation

## A] Teaching

- 1. Annual academic plan
- 2. Teaching synopsis
- 3. Teaching diaries
- 4. Remedial classes
- 5. Assignments.
- 6. students Study Project
- 7. Students Seminars
- 8. Extensions Lecturers
- 9. Departmental Celebrations
- 10. Field Trips
- 11.Quiz

## B] Learning.

1. Experiential and project-based learning is promoted through student projects and field trips.

DC Manues

- 2. Flipped classes are organised by the students to develop self confidence among the students.
- 3. Department assigns assignments to every student twice in a year in every subject, this helps the students to lean by writing a concept.
- 4. Extension lectures are organised by the experienced faculty and industry professional at least once in year in virtual and offline mode.
- 5. Students are asked to present seminars in every semester this gives them to understand the concepts better and clear.

## C] Evaluation of students:

- The department has undertaken continues evaluation as part of CBCS system and conducts two internal examinations in each semester and assigns assignments twice in semester.
- 2. Students seminars will be conducted regularly in all subjects.
- 3. Based on the class room observation and performance in regular slip tests and internal examinations students will be categorised into slow, average

and advanced learners. Advanced learners will be assigned with study projects and flipped classes.

4. Important question bank will be supplied to all the students along with previous question papers.

## **Student Seminars:**

Student seminars are conducted regularly and the students actively participated and the same is recorded in separate register

S. No	Academic Year	Number of Seminars Conducted
1	2022-23	04
2	2021-22	04
3	2020-21	02
4	2019-20	02
5	2018-19	04

#### Student Seminar Photos:

 Constant

 Constant



**Remedial coaching:** Remedial classes are arranged in the department every year to the academically backward students to improve their academic standards. Department faculty actively participates in taking remedial classes for them. Assignments and remedial coaching is given to slow learners. The department has been maintaining this practice for the last five years. The department also is preserving question banks of previous years for the benefit of the students. **Photos of Remedial Classes:** 





Google

Google

Long 80.82966° 16/12/22 03:53 AM GMT +05:30

#### **CRITERION-III**

#### Research, Innovation and Extension

(a) Research:

Teachers can update their knowledge by reading latest books, journals, attending seminars. The faculty members of the department are actively involving the students in preparing study projects and arranging field trips for the students by that students get first-hand experience and practical exposure.

Field trips are conducted to students to learn subject innovatively. The following is the data related to number of field trips conducted every year. Field trips:

2022-2023	2021-2022	2020-2021	2019-2020	2018-2019
00	00	00	01	00

Visit to ITC Bhadrachalam





## **CRITERION-IV**

#### Infrastructure and Learning Resources

#### Departmental Infrastructure:

S. No	Particulars	No of Items	
1	Staff room	01	
2	Department of Chemistry Computer	00	$\mathbf{C}$
3	Class Rooms	4	<b>)</b>
4	ICT enabled projector class Rooms	1	
5	Chemistry Laboratory		

### Learning Resources:

- Central library is being used by the students to take all the academic and non-academic books like subject textbooks story books autobiographies of famous personalities etc. In addition to that we have Department Library from which students can access reference books for extended knowledge.
- Department library has 75 different books

## List of Furniture

	S.No	Name of the Item	Quantity
	1	Almarah	3
	2	tools	20
	3	Lecture tables with chairs	2
Depa			

	List of Equipment	
S.No	Name of the Equipment	Quantity
1	Colorimeter	3
2	Potentiometer Digital With PH	3
3	Digital Conductivity meter	3
4	Analytical Balance	4
5	PH meter	3
6	Melting point apparatus	2
7	Electronic balance	
8	Stopwatches	10
9	Burette stands with clamps	20
10	Tripod stands	20
11	Electrical water bath	2
12	Rough Balance top pan	1
13	Bunsen burners	12
14	Test-tube holders	25
15	Distilled water plant	2
16	Hot Air oven	1
17	Centrifuge Electrical 4Tube	2
18	Weight Box Analytical Capacity	3
19	Thermometer	5
20	Wash Bottle 250 ml	24
21	Test Tubes 15ml	800
22	Test Tubes stands	25
23	Watch Glass	30
24	Spatula	25
25	Volumetric Flask 100ml	25
26	Volumetric Flask 250ml	10
27	Reagent Bottles 125ml	40
28	Reagent Bottles 250ml	100
29	Burette with Teflon stop cock 50ml	25
30	Pipette Volumetric 10 ml	24
31	Pipette Volumetric 20 ml	24
32	Copper water bath with CONCENTRIC RING	6
L	۰	

33	Droppers	20
34	Gloss Stirring rod	50
35	Centrifuge tube 15ml	40
36	Beaker 100ml	24
37	Beaker 250ml	24
38	Beaker 500ml	24
39	Conical Flask 100ml	25
40	Conical Flask 250ml	25
41	Conical Flask 500ml	4
42	Conical Flask 1000ml	2
43	Measuring Cylinder 10ml	2
44	Measuring Cylinder 25ml	2
45	Measuring Cylinder 100ml	2
46	Measuring Cylinder 500ml	2
47	Boiling point apparatus	2
48	Viscometer	3
49	Boiling Tubes	10
50	Round bottom Flask 250ml	25
51	Measuring Cylinder 1000ml	2
52	Glass Droppers	25
53	C Desicator	2
54	Vacuum Pump	10
reparti	nent	

## **CRITERION-V**

# Student Support and Progression

Details of students who have secured prominent PG/Other higher education seats during the last four years

S.No	Academic Batch	Name of the Student	Seat Secured	University/ College
1	2019 2021	A Vijay	MSc Chemistry	MGU
2	2016-2021	P Siddhu	MSc Chemistry	TU
3		M Venkatesh	MSc Chemistry	CUG
4		G Venkatesh	MSc Chemistry	MGU
5		P Venkatesh	MSc Chemistry	SR & BGNR
6	2019-2022	P Yerraiah	MSc Chemistry	SU
7		SK Rehan	MSC Chemistry	SR & BGNR
8		B Sagar	MSc Chemistry	OU
9		G Nagababu	MSc Chemistry	TU
10				
11		Ő		
12	2020-2023			
13	ner	*		
14				

## **CRITERION-VI**

#### Governance Leadership & Management

## MENTOR MENTEE SYSTEM

The Mentor - Mentee system also called House Master/ Adoptive Teacher is functioning with an objective

#### 1. To bridge the gap between the faculties and students

#### 2. To guide students on both educational and personal aspects.

Mentor-Mentee system has been implemented to provide a sense of belongingness and guardianship among the students who took admission here. The faculty members act as guardian (Mentor) for them to look after throughout their course tenure. The basic objective of this relationship is to guide the students in all aspects and domains so that they become strong professionals and great human beings.

#### Functions of the Mentors:

The mentors perform the functions as follows:

• Maintain an open and friendly environment between House Parent and students.

• Continuously monitor, counsel, guide, and motivate the students in all academic, personal and career concerns.

• Advise students regarding choice of electives, project, placement and training activities and internships etc.

• Contact parents/guardians if situation demands e.g. academic irregularities and decline in performance, regular absent in the class, negative behavioural changes and interpersonal relations etc.

• Discover talents and interests of students and they define and help them in attaining mentee's goals.

• Advice students in their career development regarding self-employment opportunities, entrepreneurship development, honesty and integrity required for career growth.

• Advise students in their professional development regarding professional goals, selection of career and higher education.

• Counsel them on their course regarding low attendance and low performance.

• Maintain a attendance of them and their profile.

### Detail of Mentors for the Academic Year 2022-2023

S. No	Name of the Mentor	Group	No of Students Adopted
1	MD. Sadhik& SD Sruthi	III-B. Com	33
2	B.Pavani	II-B. Com (G)	14
3	P.Ramadevi	II-B. Com (CA)	22
4	B.Rajesh & A. Suresh	I-B. Com (CA)	25
Dotail	of Class Loadors/Poprosor	tatives for the Aca	domic Voar 2022-2023

## Detail of Class Leaders/Representatives for the Academic Year 2022-2023

S. No	Name of The Student	Group	Role
1			Class CR
2			Deputy CR
3		11	Class CR
4			Deputy CR
5			Class CR
6			Deputy CR
7		×C)	Class CR
8		5	Deputy CR
	entoi		
X	(In the second s		

**College Council Elections** 

![](_page_42_Picture_1.jpeg)

![](_page_43_Picture_0.jpeg)

# CRITERIA-VII Institutional Values and Best Practices <u>Best Practices of the Department</u>

- 1. Quest Program.
- 2. Village Learning centres.
- 3. Healthy Thursday.

#### **Best Practice-1**

**Quest Programme:** With the initiation and instructions of the Gurukulam Society Department of commerce Telangana Tribal Welfare Residential degree College (boy) Manuguru, has adopted a programme called **QUEST**, in which the faculty members of the department visit the houses of the college during the short and summer vacation, where the faculty members will get an opportunity to interact with the parents of the students and can discuss the progress and difficulties of the students, which helps the department to know the basic problems of the students by that the department can initiate an action plan for the betterment of the students.

![](_page_44_Picture_6.jpeg)

![](_page_45_Picture_0.jpeg)

#### **Best Practice-2**

**Village Learning centres:** With Interest and initiation of the faculty members the department of commerce started a programme called village learning centres to fill up the gaps between drop out students and the schools due to pandemic situation during 2020 and 2021.

Under this programme the students of department of commerce conduct the classes in rural areas of their village for the school students in a local school or in their own residence and teach the students the basics of their school curriculum and conduct games.

![](_page_45_Picture_4.jpeg)

![](_page_46_Picture_0.jpeg)

#### **Best Practice-3**

**Healthy Thursday:** A day has been identified in the regular time table of the department of commerce and named as **Healthy Thursday which is** intended to clean the dormitories and classrooms of the students during 3.30pm - 5.00 pm on every Thursday.

Under this programme students clean their dormitories and classrooms by e se sue helping each other and make sure that the entire campus is clean. This activity

![](_page_48_Picture_0.jpeg)

Departmental Activities World Earth Day Conducted on 22<sup>nd</sup> Aprl 2021

![](_page_49_Picture_0.jpeg)

World Science Day for Peace and Development

Conducted on 13<sup>th</sup> Nov 2021

![](_page_50_Picture_0.jpeg)

# World Science Day for Peace and Development

Conducted on 10<sup>th</sup> Nov 2022

![](_page_51_Picture_0.jpeg)

**Teachers Day Celebrations** 

![](_page_52_Picture_0.jpeg)

![](_page_52_Picture_1.jpeg)

![](_page_53_Picture_0.jpeg)

## ICT Classes

![](_page_54_Picture_1.jpeg)

![](_page_54_Picture_2.jpeg)

![](_page_54_Picture_3.jpeg)

#### Anti-Ragging Awareness Programme

![](_page_55_Picture_1.jpeg)

Google

24/02/23 10:03 AM GMT +05:30

![](_page_56_Picture_0.jpeg)

![](_page_57_Picture_0.jpeg)