

**Department of Public Administration of Anna University**

Faculty of Management Studies, Anna University,  
Chennai - 600 025

Course: **East Indian**

Name: **S.K.R. College for Women, Rajambantravasi**  
 Date of the Report: **23-11-1999**

Sl. No.	Part	List of the documents to be submitted as a proof of the evidence	Introduction to report of the day evidence	Part Weightage	Date of Submission			Remarks
					Final Submission Date (100%)	Final Submission Date (80%)	Final Submission Date (60%)	
<b>II CURRICULAR ASPECTS</b>								
1	Learning Planning and Implementation (20 Marks)	1. Annual Academic Calendar (10 Marks) 2. Course Objectives & Outcomes 3. Learning Plan 4. Course Plan 5. Action Plan 6. Additional documents related to the course	1. Course plan for the Academic Year 2. Course plan 3. Course Plan & Outcomes 4. Additional documents related to the course	10				1. 100% marks by submission - 1 Grade point A 2. 80% marks by submission - 2 Grade point B 3. 60% marks by submission - 3 Grade point C 4. No Submission - 0
2	Continuous Evaluation (30 Marks)	1. List of all internal & external assignments 2. List of all internal & external assignments 3. List of all internal & external assignments	1. List of all internal & external assignments 2. List of all internal & external assignments 3. List of all internal & external assignments	10				
3	Final Exam (50 Marks)	1. List of all internal & external assignments 2. List of all internal & external assignments 3. List of all internal & external assignments	1. List of all internal & external assignments 2. List of all internal & external assignments 3. List of all internal & external assignments	10				
<b>III TEACHING, LEARNING &amp; EVALUATION</b>								
4	Learning to Student Learning (20 Marks)	1. Report on progress of student learning 2. Report on progress of student learning 3. Report on progress of student learning	1. Report on progress of student learning 2. Report on progress of student learning 3. Report on progress of student learning	10				1. 100% marks by submission - 1 Grade point A 2. 80% marks by submission - 2 Grade point B 3. 60% marks by submission - 3 Grade point C 4. No Submission - 0
		1. Report on progress of student learning 2. Report on progress of student learning 3. Report on progress of student learning	1. Report on progress of student learning 2. Report on progress of student learning 3. Report on progress of student learning	10				

No.	Key Indicator	List of Other Activities to be done aside on a period of this indicator	Information to report of the key indicator	Key Indicator Score	Percentage of Weighting (W%) for the Indicator	Key Indicator Grade From (A/B/C/D)	Key Indicator Final Weighted Grade From (A/B/C/D) (W% x W%)	Key Indicator Final Weighted Grade From (A/B/C/D) (W% x W%)	Key Indicator Final Weighted Grade From (A/B/C/D) (W% x W%)	Qualification
1	Teaching/Learning Process	<ol style="list-style-type: none"> <li>1. Report on teacher personal methods improvement / Course notes</li> <li>2. Report on implementation of ICT in teaching and learning / Course notes</li> <li>3. Report on implementation of Computer Based Learning / Course notes</li> <li>4. Report on the use of LMS tools / Course notes</li> <li>5. Contribution for the development of LMS in the concerned subject</li> <li>6. Report on professional development / Course notes</li> </ol>	Course-work / Case note Report	50	50	B	100			<ol style="list-style-type: none"> <li>1. All the key indicators -&gt; Grade points 4</li> <li>2. Key indicator -&gt; Grade points 3</li> <li>3. Key indicator -&gt; Grade points 2</li> <li>4. Below two (2)</li> </ol>
2	Teacher Profile and Quality	<ol style="list-style-type: none"> <li>1. Report on Seminars / Conferences / Workshops / Guest Lectures organized</li> <li>2. Report on Participation in Seminars / Conferences / Workshops / Guest Lectures / Invited talks</li> <li>3. Awards and recognitions</li> <li>4. Participation in Seminars / Conferences / Workshops / Guest Lectures / Invited talks</li> <li>5. E.S. / Career Development / MOOCs / Ph.D. / Other Higher Studies</li> <li>6. Additional Qualifications acquired during the last two years</li> </ol>	Reports and Certificates	50	50	B	60			<ol style="list-style-type: none"> <li>1. One / Two key indicators -&gt; Grade points 4</li> <li>2. One / Two key indicators -&gt; Grade points 3</li> <li>3. One / Two key indicators -&gt; Grade points 2</li> <li>4. Below two (2)</li> </ol>
3	Professional Practice and Reflection	<ol style="list-style-type: none"> <li>1. Report on Progress Evaluation (P.E.)</li> <li>2. Implementation of Internal, External, Peer Review and Student Survey</li> <li>3. Involvement in University initiatives</li> <li>4. Maintaining Marks Register &amp; Annual Analysis register</li> </ol>	Department-wise reports regarding: <ol style="list-style-type: none"> <li>1. Mid-terms, Seminar Reports, Assignments, Projects and any other mode of Internal Assessment</li> <li>2. Departmental Internal Marks Register for P.S.A.</li> </ol> verified by the Principal	<ol style="list-style-type: none"> <li>50</li> <li>50</li> <li>5</li> <li>5</li> </ol>	50	A	90			<ol style="list-style-type: none"> <li>1. All the key indicators -&gt; Grade points 4</li> <li>2. All the key indicators -&gt; Grade points 3</li> <li>3. All the key indicators -&gt; Grade points 2</li> <li>4. Below two (2)</li> </ol>
4	Student Performance and Learning Outcomes	<ol style="list-style-type: none"> <li>1. Assessment and Assessment of Course Outcomes</li> <li>2. Report on Student concern / Student dissatisfaction / Course notes</li> <li>3. Report on activities like Open Class / Discussion / Peer presentations / Course notes</li> <li>4. Report on Feedback of Instruction</li> <li>5. Report on Student Study progress / Course notes</li> </ol>	Course work Reports	100-50	50	A	90			<ol style="list-style-type: none"> <li>1. All the key indicators -&gt; Grade points 4</li> <li>2. All the key indicators -&gt; Grade points 3</li> <li>3. All the key indicators -&gt; Grade points 2</li> <li>4. Below two (2)</li> </ol>





**Commissionerate of Collegiate Education, Andhra Pradesh.**  
**PROFORMA FOR ANNUAL CURRICULAR PLAN (Lecturer Wise) : 2021-2022**

Name of the College: **S.K.R. COLLEGE FOR WOMEN, RAJAMHENDRAVARAM** Name of the Department: **Chemistry**

Name of the Lecturer: **V. B. T. Chandrababu** Date: **07.08.21** Page: **1 of 1**

Sl. No.	Name of the Lecturer	Status Type	Additional Post / Value Addition Provided / Target	CURRICULAR ACTIVITY		CO-CURRICULAR ACTIVITY	
				Activity Conducted	Hours/Week (planned/actual)	Activity Conducted	Hours/Week (planned/actual)
1	V. B. T. Chandrababu	Regular					
2	V. B. T. Chandrababu	Regular					
3	V. B. T. Chandrababu	Regular					
4	V. B. T. Chandrababu	Regular					

**V. B. T. Chandrababu**  
Signature of the Lecturer

**M. Sushika**  
Signature of the Department H.O.

**M. Sushika**  
Signature of the Lecturer

Sl. No.	Name of the Lecturer	Status Type	Additional Post / Value Addition Provided / Target	CURRICULAR ACTIVITY		CO-CURRICULAR ACTIVITY	
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4	V. B. T. Chandrababu	Regular					

**V. B. T. Chandrababu**  
Signature of the Lecturer

**M. Sushika**  
Signature of the Department H.O.

**M. Sushika**  
Signature of the Lecturer

Name of the College: **S.K.R. COLLEGE FOR WOMEN, RAJAMHENDRAVARAM** Name of the Department: **Chemistry**

Name of the Lecturer: **V. B. T. Chandrababu** Date: **07.08.21** Page: **2 of 2**

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4	V. B. T. Chandrababu	Regular					

**V. B. T. Chandrababu**  
Signature of the Lecturer

**M. Sushika**  
Signature of the Department H.O.

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4	V. B. T. Chandrababu	Regular					

**V. B. T. Chandrababu**  
Signature of the Lecturer

**M. Sushika**  
Signature of the Department H.O.

**M. Sushika**  
Signature of the Lecturer



Name of the Department: Chemistry  
 Name of the Lecturer: V. B. T. Simonsi

### TEACHING

Date / Month / Year	Day	Class	Period / Time	Medium EM / TM	Theory / Practical
1	2	3	4	5	6
01.10.2022	Saturday	-	FN	-	-
02.10.2022	-	-	-	-	-
03.10.2022	to	04.10.2022	-	-	-
10.10.2022	Monday	-	-	-	-
11.10.2022	Tuesday	-	-	-	-
12.10.2022	Wednesday	-	-	-	-
13.10.2022	Thursday	to	16.10.2022	Sunday	-
17.10.2022	Monday	-	-	-	-
18.10.2022	-	-	AN	-	-
19.10.2022	Tuesday	-	-	-	-
20.10.2022	Thursday	-	-	-	-
21.10.2022	Friday	-	AN	-	-
23.10.2022	Saturday	-	-	-	-

V. B. T. Simonsi  
 Signature of the Lecturer

[Signature]  
 Signature of the Department VC

### DIARY 2021 - 2022

Topic Covered	Methodology Adopted	No. of Students attended	Teaching Aids used	Student Activity conducted	Remarks
7	8	9	10	11	12
OTLP FBS app work	-	-	-	-	-
Sunday	-	-	-	-	-
Dissertation Holidays	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
OTLP work	-	-	-	-	-
Practical Examiners for II Sem in East Africa	-	-	-	-	-
Applied Casual leave	-	-	-	-	-
II Sem Invigilation duty	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
II Sem Invigilation duty	-	-	-	-	-

[Signature]  
 Signature of the Lecturer

Commissionerate of Collegiate Education, Andhra Pradesh,  
PROFORMA FOR TEACHING PLAN

Name of the Department	Chemistry
Name of the Lecturer	V. B. T. Sundari
Course / Group	II B.Sc. MPC E.C.P.P.(EM)
Paper	3A
Name of the Topic	Co-ordination Chemistry
Hours required	8 hrs
Learning Objectives	IUPAC nomenclature bonding theories - Review of Werner's theory and Sidgwick's concept of co-ordination
Previous Knowledge to be reminded	
Topic Synopsis	<p>Double Salts and co-ordination compounds</p> <p>Double salts: Double salts are those molecular compounds which exist only in crystal lattices and lose their identity when dissolved in water.</p> <p>co-ordination or complex compounds: co-ordination compounds are those molecular compounds which retain their identities even when dissolved in water or any other solvent and their properties are completely different from those of the constituents.</p> <p>Central ion: The atom to which one or more neutral molecules or anions are attached is called the central ion of co-ordination.</p> <p>Ligand: Any atom, ion or molecule which is capable of donating a pair of electrons to the central atom is called a co-ordination group or ligand.</p> <p>Co-ordination number: The total number of ligands attached to the central ion is known as the co-ordination number of that ion.</p> <p>Co-ordination sphere: The central metal atom and the ligands directly attached to it are collectively termed as the co-ordination sphere.</p> <p>Oxidation number: It is number which represents the</p>

<p>electronic charge on the central metal atom of a complex.</p> <p>2. Nomenclature of co-ordination compounds</p> <p>3. Werner's theory of co-ordination compounds</p> <p>4. primary valency</p> <p>5. Secondary valency</p> <p>6. Valence bond theory</p> <p>7. Crystal field theory</p> <p>8. splitting of d-orbitals in octahedral complex</p> <p>9. splitting of d-orbitals in tetrahedral complexes</p> <p>10. splitting of d-orbitals in square planar complexes</p> <p>11. Factors affecting crystal field splitting</p> <p>12. Merits and demerits of crystal field theory</p> <p>13. Isomerism in co-ordination compounds</p> <p>14. Detection of complex ions</p> <p>15. Applications of complex ion formation in the analytical chemistry</p>	<p>Examples / Illustrations</p> <p><math>K_2Cr_2O_7 \cdot 2H_2O</math>, <math>Na_2SO_4 \cdot 10H_2O</math>, <math>Co(NH_3)_6Cl_3</math></p>
Additional Inputs	crystal theory
Teaching Aids used	black board & chalk piece
Reference cited	Basic inorganic chemistry by Cotton & Wilkinson
Student Activity planned after the teaching	Important key points
Activity planned outside the class room if any	Seminar
Any other activity	

V. B. T. Sundari  
Signature of the Lecturer

M. Sundari  
Signature of the Department

Commissionerate of Collegiate Education, Andhra Pradesh,  
**PROFORMA FOR TEACHING PLAN**

Name of the Department	Chemistry
Name of the Lecturer	V. V. Suresh
Course / Group	I B.Sc. M.P.C.V. C.B.2 (EM)
Paper	I (II Sem)
Name of the Topic	Benzene and its reactivity
Hours required	
Learning Objectives	concept of aromaticity, Huckel rule - Huckel - derived mechanism of electrophilic aromatic substitution. Orientation of aromatic substitution.
Previous Knowledge to be reminded	Structure of Benzene

**Topic Synopsis**

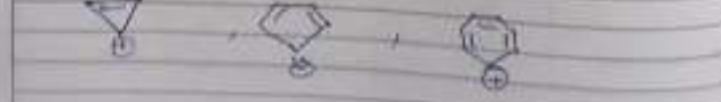
The term aromatic is derived from the Greek word *aroma* meaning fragrance (pleasant smell). Earlier, aromatic compounds were defined as those compounds which either themselves possess smell or were derived from pleasant smelling compounds.

- Concept of aromaticity:
- i. Unusual stability
  - ii. Substitution rather than addition reactions
  - iii. Resistant to oxidation
  - iv. cyclic flat molecules
  - v. Huckel rule.

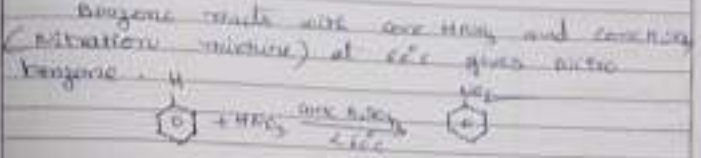
**Benzenoid compounds:**



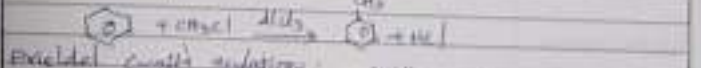
**Non-benzenoid compounds:**



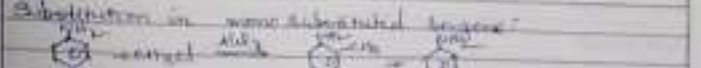
**Electrophilic substitution reactions:**  
**Nitration:**



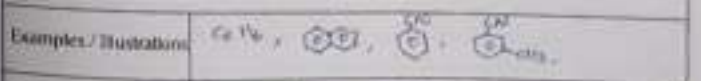
**Friedel-Crafts alkylation:**



**Friedel-Crafts acylation:**



**Substitution in mono-substituted benzene:**



Examples / Illustrations	Co <sup>16</sup> , <chem>c1ccc(cc1)C(=O)O</chem> , <chem>c1ccc(cc1)[O-]</chem> , <chem>c1ccc(cc1)[NH2+]</chem>
Additional Inputs	Preparation of Benzene
Teaching Aids used	chalk piece & black board
Reference cited	Ball & Ball
Student Activity planned after the teaching	Key points to write
Activity planned outside the class room if any	Assignment
Any other activity	-

V. V. Suresh  
 Signature of the Lecturer

*P. Anjaneyulu*  
 Head of the Department  
 H. V. R. COLLEGE  
 Hyderabad, Andhra Pradesh







Re-Accredited at B' Grade by NAAC

Affiliated to Adikavi Nannaya university

DEPARTMENT OF CHEMISTRY

ACTION PLAN FOR THE YEAR 2021-22

S.No	Month/Year	Proposed Activities	Remarks
1	October-2021 I Week	---	
	II Week	---	
	III Week	Departmental staff meeting to review results and class work allotment/ Preparation of annual Action Plan	
	IV Week	Preparation of Curriculum plan and timetables for even semester	
2	November-2021 I Week	Rajyalakshamma Birth Anniversary / celebrations	
	II Week	I Midterm examinations III Year students	
	III Week	Preparation of e- content	
	IV Week	Assignments	
3	December-2021 I Week	Orientation program for I BSC Students	
	II Week	bridge course for I Year students	
	III Week	I Midterm examinations for II & I Year students II Midterm examinations for III Year students	
	IV Week	Medicinal garden development	
4	January-2022 I Week	Field visit for final year students	Visited Rubber processing unit
	II Week	Sankranti Sambaralu	
	III Week	student seminars	
	IV Week		
5	February-2022 I Week	Conduct of Quiz on "World Cancer day"	
	II Week	II Midterm examinations for II & I Year students	
	III Week	Remedial Coaching classes	
	IV Week	National Science day	
6	March-2022 I Week	WorkShop	Done on

	II Week	International Womens day	
	III Week	Preparation of curricular plans for even sem	
	IV Week	I Mid examinations for III Year students Guest Lecture	
7	April - 2022 I Week	Group Discussion	
	II Week	I Midterm examinations for I & II Year students	Mid exam conducted in June for I Year
	III Week	Birth anniversary of Sri Rao Bahadur Kandukuri Viresalingam pantulugaru	
	IV Week	II Midterm examinations for III Year students	
8	May - 2022 I Week		
	II Week	Conduct of student seminars	
	III Week	II Mid examinations for I & II Year students	Mid exam conducted in July for I Year
	IV Week	Kandukuri veeresalingam gari vardanthi	Done
9	June - 2022 I Week	World Environmental day	
	II Week	I Midterm examinations for I Year	
	III Week	Remedial Coaching	
	IV Week	Conduct of study hours /	
10	July - 2022 I Week	II Midterm examinations for III Year students	
	II Week		
	III Week	II Midterm examinations for II & I Year	
	IV Week		
11	August - 2022 I Week		
	II Week	Independence day	One week activities - Azadika Amruth Mahotsav
	III Week	Departmental feedback/ Institutional feedback.	
	IV Week		



**CERTIFICATE COURSE**  
**ON**  
**FOOD ADULTERATION**



**.R.COLLEGE FOR WOMEN :: RAJAMAHENDRAVARAM**  
**DEPARTMENT OF CHEMISTRY**

**2021-2022**

To

The Principal,  
S.K.R.College for Women,  
Rajamahendravaram.

From

Dr.M.Sunitha,  
Lecturer in Chemistry,  
S.K.R.College for Women,  
Rajamahendravaram.

**Sub:** Requesting letter to start a Certificate Course on "Food Adulteration" submitting Proposals regarding...

Respected madam,

We, the Department of Chemistry has planned to start Certificate Course for Final year B.Sc. students from 03/01/2022 to 28/02/2022 i.e., for 2 months (36 hrs.) on Food Adulteration for the academic year 2021-2022.

We humbly request you to permit us for conducting the above course.

Thanking you,

*M. Sunitha*  
Dr.M.Sunitha

DR. M. SUNITHA  
M.Sc., M.Phil., Ph.D.  
Incharge of the Dept. of Chemistry  
S.K.R. COLLEGE FOR WOMEN,  
RAJAMAHENDRAVARAM.







Smt.KANDUKURI RAJYALAKSHMI COLLEGE FOR WOMEN,  
RAJAMAHENDRAVARAM,  
RE-ACCREDITED AT B+ LEVEL BY NAAC



## Certificate



This is to certify that \_\_\_\_\_ of III B.Sc  
successfully completed the Value Added Course on **Food  
Adulteration** conducted by the Department of Chemistry  
from 03-01-2022 to 28-02-2022.



*H. Senthil*

Head of the Department

Principal

S. M. SUNITHA  
M.Sc., M.Phil., Ph.D.  
Head of the Dept. of Chemistry  
Smt. KANDUKURI RAJYALAKSHMI COLLEGE FOR WOMEN,  
RAJAMAHENDRAVARAM.



S.K.R.COLLEGE FOR WOMEN, RAJAHMUNDRY  
DEPARTMENT OF CHEMISTRY  
REMEDIAL COACHING

Semester - I  
Year-2021-22

S.NO	Name of the Student	Marks obtained in the previous semester Mid	TOPIC COVERED					Marks obtained in the internal exam after remedial coaching	Signature of the student	Remarks
			Di	Di	Di	Di	Di			
1.	G.N. Sankarika Reddy	13	✓	✓	✓	✓	✓	15	G.N. Sankarika Reddy	
2.	Ch. Haritha	10	✓	✓	✓	✓	✓	14	Ch. Haritha	
3.	K. Uma Nageswari	10	Ab	✓	Ab	✓	✓	15	K. Uma Nageswari	
4.	K. Sumanada	10	✓	✓	✓	✓	✓	12	K. Sumanada	
5.	L. Jayapriya	11	✓	✓	Ab	✓	✓	15	L. Jayapriya	
6.	J. Hema Lakshmi	09	✓	✓	✓	✓	✓	15	J. Hema Lakshmi	
7.	P. Puvarthi	10	✓	✓	✓	✓	Ab	15	P. Puvarthi	
8.	S. Iswariya	14	✓	✓	✓	✓	✓	15	S. Iswariya	
9.	D. Sravathyarani	10	✓	Ab	✓	✓	✓	10	D. Sravathyarani	

H. Sridhar  
V. B. T. Sundar





2021 - 2022

Cluster

S.No	Name & Address	Photo
1	K. Veeraveni Address:- 2-229, Water-tank Street, Kunavaram, seethanagaram Mandal East Godavari. ph no:- 9704588363	
2	Sri Braundhan SVPK. Address:- 2-581; Venkateswara Swami temple street; Balaji Peta; Rajahmundry, East Godavari- Andhra Pradesh -533101 Phone number:- 7386772228	
3	K. Bhavani Address:- 2-228, Near Water-tank Street, Kunavaram, Seethanagaram (Mandal) East Godavari district Ph no:- 9010608098	
	M. Hema latha Address:- 2-66, Chattranya Nagar, Jaddangi, rajavommangi mandal, East godavari district. Ph no:- 6304463836	

Kodamanchali. Sandhya.

Address: 1-58 pata kodada, thondam  
mandalam kodada, East Godavari

P.C; 533408

Phno; 9014938015



Madakam. Divya Kanthi

Address: 1-117 kammaru peta, devipati  
devipatnam mandal, East Godavari

P.C; 533339

Phno; 7382121639.



Pidim. Sushma

Address: - 1-39 main road, Nellipudi  
Gangabasam mandal, East Godavari

P.C: 533285

Phno:- 9948459657



Galla. Sandhya Rani

Address: 5-44/1, pallapuvathi, Katravulapeta

Jaggampeta mandal, East Godavari  
533437

ph.No: 7095531929



M. Sreeraj



## MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN  
DEPARTMENT OF CHEMISTRY  
SMT. KANDUKURI RAJYALAKSHMI COLLEGE FOR WOMEN,  
RAJAMAHENDRAVARAM,  
ANDHRA PRADESH, INDIA  
AND  
VASISHTA PESTICIDES PRIVATE LIMITED, AVIDI,  
KOTHAPETA MANDAL, EAST GODAVARI DISTRICT,  
ANDHRA PRADESH, INDIA

This Memorandum of Understanding (MOU) sets for the terms and understanding for training and employment possibilities for the students of "Department of Chemistry", SKR College for Women, Rajamahendravaram.

### Objectives of the MOU:

The objectives of the MOU are:

- To promote and enhance interest between students of Chemistry Department, Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram and Vasishta Pesticides Private Limited.
- To provide advice for implementation of quality education at Department of Chemistry, Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram.
- To bridge the gap between the requirements of the potential employers and education by providing skill-development programmes for the improvement of employability of the students.
- The two institutions will encourage direct contact and cooperation between students and experts in this field for the exchange of facilities and equipment.
- The above goals will be accomplished by the activities such as educational visit, short-term training and internships.
- RECOGNISE the mutual interest in the fields of training and development and dissemination of knowledge.

### Proposed modes of Collaboration

Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram and Vasishta Pesticides Private Limited proposed to collaborate through the following:

- Co-operation and promotion of education, training and research in the areas of mutual interest.
- Any other appropriate mode of interaction agreed upon between Department of Chemistry, Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram and M/s. Vasishta Pesticides Private Limited, Avidi, Kothapeta Mandal, East Godavari, A.P.
- A specific plan will be worked out by the institute depending upon availability of resource.
- A specific agreement will be entered into for each activity.

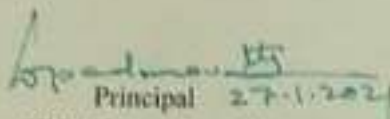
## TERMS AND CONDITIONS

**Duration:** This MOU is at will and may be modified by mutual consent of the authorized officials from the list partners.

**Coordinators:** College and M/s. Vasishtha Pesticides Private Limited, Avidi, Kothapeta Mandal, East Godavari, Andhra Pradesh will designate persons who will have responsibility for co-ordination and implementation of this agreement.

**Signed in duplicate:** This MOU is executed in duplicate with each copy being an official version and having equal legal validity.

By signing below the institutes acting by their duly authorized officer, have caused this memorandum of understanding to be executed effective as of the day and year first above written (i.e., from 27-01-2021).

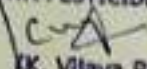
  
Principal 27-1-2021

SKR College from Women  
Rajamahendravaram  
East Godavari - A. P.

PRINCIPAL  
S.K.R. COLLEGE FOR WOMEN  
HITHAKARINI SAMAJ  
Endowments Dept. (Govt. of A.P.)  
RAJAHMUNDRY.



For VASISHTA PESTICIDES PVT. LTD.

  
(K. Vijaya Rama Raju)  
Managing Director

M/s. Vasishtha Pesticides Limited  
Avidi, Kothapeta Mandal  
East Godavari - A. P.

**MEMORANDUM OF UNDERSTANDING (MOU)**  
BETWEEN  
DEPARTMENT OF CHEMISTRY  
SMT.KANDUKURI RAJYALAKSHMI COLLEGE FOR WOMEN,  
RAJAMAHENDRAVARAM, ANDHRAPRADESH  
AND  
QREN LIFESCIENCES PVT. LTD.  
AMEERPET, HYDERABAD,  
TELANGANA, INDIA

This Memorandum of Understanding (MOU) sets for the terms and understanding for training and employment possibilities for the students of "Department of Chemistry", S.K.R.COLLEGE FOR WOMEN, Rajamahendravaram.

Objectives of the MOU:

The objectives of MOU are:

- To promote and enhance interest between students of Chemistry Department, Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram and QREN LIFESCIENCES PVT.LTD., AMEERPET, HYDERABAD, TELANGANA, INDIA.
- To provide advice for implementation of quality education at Department of Chemistry, Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram.
- To bridge the gap between the requirements of the potential employers and education by providing skill-development programmes for the improvement of employability of the students.
- The two institutions will encourage direct contact and cooperation between students and experts in this field for the exchange of facilities and equipment.
- The above goals will be accomplished by the activities such as educational visit, short-term training and internships.
- Recognise the mutual interest in the fields of training and development and dissemination of knowledge.

**Proposed modes of Collaboration**

Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram and QREN LIFESCIENCES PVT.LTD., Ameerpet, Hyderabad, Telangana, India proposed to collaborate through the following:



- Cooperation and promotion of education, training and research in the areas of mutual interest.
- Any other appropriate mode of interaction agreed upon between Department of Chemistry, Smt. Kandukuri Rajyalakshmi College for Women, Rajamahendravaram and QREN LIFESCIENCES PVT.LTD., Ameerpet, Hyderabad, Telangana.
- A specific plan will be worked out by the institute depending upon availability of resource.
- A specific agreement will be entered into for each activity.

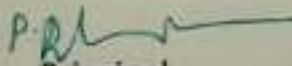
## TERMS AND CONDITIONS

**Duration:** This MOU is at will and may be modified by mutual consent of authorized officials from the list partners.

**Coordinators:** College and QREN LIFESCIENCES PVT.LTD., Ameerpet, Hyderabad, Telangana will designate persons who will have responsibility for co-ordination and implementation of this agreement.

**Signed in Duplicate:** This MOU is executed in duplicate with each copy being an official version and having equal legal validity.


By signing below the institutes acting by their duly authorised Officer, have caused this memorandum of understanding to be executed effective as of the day and year first above written on today i.e., on 01-04-2022 for a period of TWO academic years.

  
Principal

S.K.R.College for Women,  
Rajamahendravaram

S.K.R. COLLEGE FOR WOMEN  
HITHAKARINI SAMAJ  
Endowments Dept. Govt. of Andhra Pradesh  
RAJAMAHENDRAVARAM



  
QREN LIFESCIENCES PVT.LTD.  
Ameerpet, Hyderabad  
Telangana -500016

QREN LIFE SCIENCES PVT. LTD.  
6-3-852/2B/11, Aparajita Colony,  
Lal Bungalow, Ameerpet,  
Hyderabad-500 016.



SARASWATHI COLLEGE FOR WOMEN, RAJAHMAHENDRAVARAM  
DEPARTMENT OF CHEMISTRY

## Vision & Mission

### **VISION:**

The vision of Department of Chemistry is in educating and graduating young women students and prepares them in various fields like teaching, employment, and research contribute to the ever-changing, technology-controlled world of the 21st century. Our department strives to provide quality and value based education.

### **MISSION:**

1. The department of chemistry always strives to impart knowledge and skills to our students in chemistry.
2. Always provide innovative classroom instruction at undergraduate level and update curriculum.
3. The faculty puts efforts to meet the environmental and global related issues through chemical education and communicate the excitement of chemistry.
4. The Department of Chemistry stands for a Learner oriented value based educational system.

## AMINO ACIDS & PROTEINS

**Q... How are the amino acids classified ?**

Classification of Amino Acids :- Basing on the number of "amino" and "carboxylic" groups present in the amino acids. The amino acids are divided into three types.

1. Neutral Amino acids :- These type of amino acids contain same number of "amino" and "carboxylic acid" groups.

Eg :-  $\text{NH}_2 - \text{CH}_2 - \text{COOH}$       Glycine

2. Acidic Amino acids :- These type of amino acids contain more number of "carboxylic groups" than "amino groups."

Eg :-  $\text{HOOC} - \text{CH}_2 - \underset{\text{NH}_2}{\text{CH}} - \text{COOH}$   
Aspartic acid

3. Basic Amino acids :- These type of amino acids contain more number of "amino groups" than "carboxylic groups."

Eg :-  $\text{NH}_2 - (\text{CH}_2)_4 - \underset{\text{NH}_2}{\text{CH}} - \text{COOH}$   
Lysine

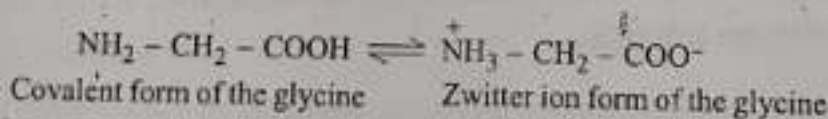
**Q... What are Essential and Non-Essential amino acids ?**

Proteins on hydrolysis give  $\alpha$  amino acids. These  $\alpha$ -amino acids are known as Natural Amino acids. There are 25 natural amino acids.

Among 25 Natural amino acids, 15 amino acids are synthesized by our body at the required rate. These 15 amino acids are known as Non-essential amino acids. Remaining 10 amino acids are not synthesized by our body at the required rate for the body growth. These must be supplied through the diet to the body. These 10 amino acids are known as essential amino acids. Deficiency in any one of these 10 amino acids effect the growth of the body.

The essential amino acids are "Valine, Lysine, Phenylalanine, Threonine, Methionine, Tryptophan, Arginine, Histidine, Leucine, Isoleucine".

**Q... What is Zwitter Ion ?**



As amino acids contain both acidic and basic groups, they exists as Zwitter ion molecules.

In amino acids, the proton from the carboxylic group migrates to the nitrogen of the amino group. This migration generates a negative charge on the carboxylic group and a positive charge on the amino group. This doubly charged ion is known as Zwitter ion. Amino acids possess both covalent structure as well as zwitter ion structure. These two structures co exist in equilibrium state.

**Q... What is Iso Electric point ? What is it's significance ?**

Every amino acid possess certain  $\text{pH}$  value. On electrolysis at that  $\text{pH}$ , that amino acid does not move towards either of the two electrodes. That  $\text{pH}$  value is known as Iso Electric point of that amino acid.









## SKR GDC (W), RAJAMAHENDRAVARAM

Department of Chemistry 2021-2022

## Programme &amp; Course outcomes

		Programme outcomes
	BSC-MPC& CBZ	1. Understand the environment functions and how it is affected by human activities. 2. Acquire chemical knowledge to ensure sustainable use of the world's resources and ecosystems services. 3. Engage in simple and advanced analytical tools used to measure the different types of pollution. 4. Explain the energy crisis and different aspects of sustainability.      5. Gain the knowledge of chemistry through theory and practicals 6. Identify chemical formula and solve numerical problems      7. understand good laboratory practices and safety 8. make aware and handle the sophisticated instruments or equipments
SEM	Name of the course	Course out comes
sem-1	Inorganic and Physical Chemistry	Understand the basic concepts of p-block elements ☐ Explain the difference between solid, liquid and gases in terms of intermolecular interactions. ☐ Apply the concepts of gas equations, pH and electrolytes while studying other chemistry courses.
sem-2	Organic & General Chemistry	Understand and explain the differential behavior of organic compounds based on fundamental concepts learnt. - Formulate the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved - Learn and identify many organic reaction mechanism including Free Radical Substitution, - Electrophonic Addition and Electrophonic Aromatic Substitution.
Sem-3	Organic chemistry & Spectroscopy	Understand preparation, properties and reactions of haloalkanes, haloarenes and oxygen containing functional groups. ☐ Use the synthetic chemistry learnt in this course to do functional group transformations. ☐ To propose plausible mechanisms for any relevant reaction

**S K R COLLEGE FOR WOMEN**  
**RAJAMAHENDRAVARAM**  
(Re-Accredited by NAAC B+ Grade) : Affiliated to Adikavi Nannaya University)  
**DEPARTMENT OF CHEMISTRY**  
**BRIDGE COURSE**

\*\*\*\*\*

"THE ESSENCE OF EDUCATION LIES IN DRAWING OUT THE VERY BEST THAT IS IN YOU"

A bridge course is a series of classes that help students transition from Intermediate level to graduation by providing them with necessary skills and knowledge about topics that will be covered in their new course.

**Objectives :**

- The main objective of the course is to bridge the gap between subjects studied at pre-university level and subjects they would be studying in B.Sc Course.
- To enrich the students to learn basic concepts in the subjects of B.Sc I semester.
- To give students confidence and skills to successfully transform to college and new curriculum
- Interactive and Active Learning by doing have been weaved into the Bridge Course.
- Active Learning with the help of other/ peer students.
- To achieve the concept of Assisted Learning.

**Standard Operating Procedure**

- A Bridge Course for newly admitted B.Sc Students is conducted every year before commencement of First Semester Classes. The syllabus for the B.Sc course is designed in such a way that, equal importance is given to both Chemistry discipline subjects and personality development.
- Bridge Course helps the students to open up, think creatively and become responsible and independent students. It also helps smooth transition to Chemistry course. The sound grasp of the fundamentals of Chemistry and Management subjects by the students lays the strong foundation for the entire Three/ Four Years Programme.
- **Highlights of the Bridge Course:**

**1) States of Matter**

Dr.M.Sunitha, Faculty, Department of Chemistry explained in detail about 1. The three states of matter 2. Intermolecular interaction 3. Hydrogen bonding 4. The gaseous state 5. Boyle's law, Charles law. 6. Gay Lussac's law, Avogadro law 7. Kinetic theory - molecular speeds 8. Liquid state 9. Vapour pressure 10. Surface tension 11. Viscosity. lecture come demonstration method atomic model blackboard

**2) Periodic table**

Smt. V.B.T.Sundari Faculty, Department of Chemistry explained about Overview of Periodic table Periodic trends in properties of Elements - a) Atomic radius b) Ionization potential c) Electro negativity d) Ionic radius e) Density.

**3) Fundamentals of Organic Reaction Mechanism:**

Smt. V.B.T.Sundari, Department of Chemistry explained about the basic concepts stability of Carbocation, Carbanion, and Carbon free radical 2. Types of Reagents- Electrophiles and Nucleophiles 3. Curved arrow notations, cleavage of bond-homolytic and heterolytic cleavage 4. Resonance effect, Inductive effect, Mesomeric effect and Steric effect 5. Types of reactions- Addition, Elimination, Substitution, and Rearrangement

**4) Structure of Atom:**

Dr.M.Sunitha, Faculty, Department of Chemistry gave an Overview of Structure of Atom Quantum number - i) Principal quantum number ii) Azimuthal quantum number iii) Magnetic quantum number iv) Spin quantum number, Shape of orbitals - a) s - orbital b) p - orbital c) d - orbital a) Aufbau principle b) Pauli's exclusion principle c) Hund's rule.

**ACTION PLAN / REPORT ON BRIDE COURSE**  
**FOR THE ACADEMIC YEAR 2022–2023**

\*\*\*\*\*

Date	Time/ Hour	Topic	Content/Activity	Resource Person
07/11/22	4 <sup>th</sup>	States of Matter	1. The three states of matter 2. Intermolecular interaction 3. Hydrogen bonding 4. The gaseous state 5. Boyle's law, Charles law. 6. Avogadro law 7. Kinetic theory - molecular speeds 8. Liquid state 9. Vapour pressure 10. Surface tension 11. Viscosity.	Dr.M.Sunitha
10/11/22	2 <sup>nd</sup>	Overview of Periodic table	Periodic trends in properties of Elements - a) Atomic radius b) Ionization potential c) Electro negativity d) Ionic radius e) Density.	Smt.V.B.T.Sundari
11/11/22	4 <sup>th</sup>	Fundamentals of Organic Reaction Mechanism	1. stability of Carbocation, Carbanion, and Carbon free radical 2. Types of Reagents- Electrophiles and Nucleophiles 3. Curved arrow notations, cleavage of bond-homolytic and heterolytic cleavage 4. Resonance effect, Inductive effect, Mesomeric effect and Steric effect 5. Types of reactions- Addition, Elimination, Substitution, and Rearrangement	Smt.V.B.T.Sundari
12/11/22	1 <sup>st</sup>	Structure of Atom	i) Principal quantum number ii) Azimuthal quantum number iii) Magnetic quantum number iv) Spin quantum number, Shape of orbitals - a) s – orbital b) p – orbital c) d – orbital a) Aufbau principle b) Pauli's exclusion principle c) Hund's rule	Dr.M.Sunitha





# S.K.R. College for Women

Rajahmundry, East Godavari District, Andhra Pradesh

Re-Accredited by NAAC with 'B' Grade. Affiliated to Adikavi Nannaya University



## Department of Chemistry

### Organized Work Shop on

## Qualitative Techniques for Micro Analysis

Date-05/03/2022

The rising cost of chemicals and decreased flow of funds are causing great concerns to the chemistry teachers. A tug - of - war had also been going on in recent years, to balance the budget of running practical courses and the standards of experiments to be carried out by the students. Since the economy is always the winner, the number of experiments had been the losers. A group of scientists from University of Pune and Fergusson College, Pune are striving hard to maintain the standards of experiments at a friendly budget i.e., by adopting to preparations on a micro scale and carrying out reactions in capillaries / tiles.

Their attempts serve many purposes.

- (i). Cuts down the cost of chemicals.
- (ii). Experiments have become environment friendly.
- (iii). Less time consuming
- (iv). Less hazardous to the teachers, students and lab assistants.

In this connection, a one day workshop is being organized in our College with the support of **Dr.D.Suneetha**, Lecturer in Chemistry, Govt. (Autonomous) college, Rajahmundry, **Dr.T.Sreevarm**, Lecturer in Chemistry, Govt. (Autonomous) college,



## SKR COLLEGE FOR WOMEN, RAJAHMUNDRY

## DEPARTMENT OF CHEMISTRY 2021-22

## LIST OF STUDENT SEMINARS

S.NO	SEMESTER	DATE	SEMINAR CONDUCTED BY	NAME OF THE STUDENT	TOPIC
1	I	5.12.2021	V.B.T.SUNDARI	V. Maha lakshmi	Diborane, Silicones
2		8.12.2021	Dr.M.SUNITHA	Ch. Mamatha	vanderWaals equation
3		20.12.2021	V.B.T.SUNDARI	J.Mamatha	properties of d-block elements
4		27.12.2021	Dr.M.SUNITHA	B. keerthi	C.S.T
5		7.1.2022	V.B.T.SUNDARI	B.Sai mounika	psaudo halogens, inter halogen compounds
6		31.1.2022	Dr.M.SUNITHA	M.Ranjitha	M.O.Theory
7	III	29/11/2021	Dr.Ch.V.V.SRINIVAS	K.Hiranmai	preparation of primary secondary and tertiary alcohols
8		29/11/2021	N.SWATHI	D.Lakshmana	SN1 and SN2 mechanism
9		8/12/2021	Dr.Ch.V.V.SRINIVAS	M.Raja ramani	Fries and Claisen rearrangement with mechanism
10		6/1/2022	N.SWATHI	B.Gowthami	cannizzaro reaction
11		10/2/2022	Dr.Ch.V.V.SRINIVAS	S.Potamma	spin spin coupling
12		21/2/2022	N.SWATHI	Ch.Lakshmi Kalyani	chromophore and Auxo chrome
13		25/2/2022	Dr.Ch.V.V.SRINIVAS	K.Lalitha	HVZ reaction
14	v	27/10/2021	V.B.T.SUNDARI	S.B. Sonia shankar	CFT
15		9/11/2021	N.SWATHI	M.Paris rani	Mainichi, michale
16		22/11/2021	V.B.T.SUNDARI	Ch.Ganga bhavani	separation of amine by hinseberg method
17		27/01/2022	Dr.M.SUNITHA	G.Sandhya rani	cannot cycle
18		11/2/2022	V.B.T.SUNDARI	R.Chalvani	kirchoff equation
19		2/11/2021	Dr.Ch.V.V.SRINIVAS	V.Liza	inert and labeled complex
20		16/11/2021	Dr.M.SUNITHA	K.Risheena	structure of haemoglobin
21		15/12/2021	N.SWATHI	K.Yuva deepthi	acidity of pyrrole
22		7/1/2022	Dr.M.SUNITHA	K.Lalitha prasanthi	zwitter ion, isoelectric point
23		17/2/2022	N.SWATHI	U.Hema gri	joule Thomson effect
24	II	30/6/2022	V.B.T.SUNDARI	Ch. mounika	preparation of alkanes
25		15/07/2022	Dr.M.SUNITHA	K.Kusuma kumari	VB theory
26		25/7/2022	V.B.T.SUNDARI	MD.Soha alia	Bayer strain theory
27		18/08/2022	Dr.M.SUNITHA	M.Ranjitha	difference between physical and chemical adsorption
		29/8/2022	V.B.T.SUNDARI	Bk.Thabussam	saytzeff rule and Hoffman elimination , markonikoff rule
		12/09/2022	Dr.M.SUNITHA	P.Kavya	LCAO method , MO diagram of CO and NO
	IV	29/4/2022	Dr.Ch.V.V.SRINIVAS	D.ganily	ligand substitution reaction of SN1 and SN2
		5/5/2022	N.SWATHI	N.Swathi	structure of myoglobin
		19/5/2022	Dr.Ch.V.V.SRINIVAS	k.Lahari	pauli-knorr synthesis, acidic character of pyrrole
		4/6/2022	N.SWATHI	S.Vandana sai	osazone formation by glucose and fructose
		18/6/2022	Dr.Ch.V.V.SRINIVAS	V.V.V.Anandha lakshmi	threose synthesis





# S.K.R. College for Women

Kalamahendrapuram, East Godavari District  
Andhra Pradesh



In collaboration with

## S.V.D. GOVT. DEGREE COLLEGE (W)

Andalavolu, West Godavari District  
Andhra Pradesh

### Departments of Chemistry

Cordially invites you to the one day

## International e-Conference

On

### Small Molecule Chemistry:

### Therapeutic and Optoelectronic Applications

On 23<sup>rd</sup> January, 2021 from 10:00 am to 1:30 am

#### Invited Speakers



**Dr. Saif Akber Noddy Saripally**  
Senior Lecturer Center for Advanced  
Pharmaceuticals (CAP) Research  
Technique at Monash University,  
Melbourne, Australia



**Dr. Madhu Kiran Sankaranarayanan**  
Senior Research Scientist  
Material Research &  
Innovation, Capgemini  
Pune, India



**Dr. Anil Gorle**  
Main Course Fellow  
Imperial College London  
United Kingdom



#### Patrons



**Dr. Dr. Padmasree**  
Principal  
S.K.R. College for Women

**Dr. T.K. Vinayakumar Rao**  
Principal  
S.V.D. Govt. Degree College (W)

#### Organizing Committee

**Dr. M. Sumitha**  
Lecturer in Chemistry  
S.K.R. College for Women  
Coordinator

**Mrs. G. Tejaswini**  
Lecturer in Chemistry  
S.V.D. Govt. Degree College (W)  
Co-Coordinator

**Dr. Ch. V. V. Srinivas**  
Lecturer in Chemistry  
S.K.R. College for Women  
Member

**Mrs. V. B. T. Sundari**  
Lecturer in Chemistry  
S.K.R. College for Women  
Member

**Mrs. N. Swathi**  
Lecturer in Chemistry  
S.K.R. College for Women  
Member

**Mr. P. L. Subrahmanyam**  
Technical Advisor

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the e-Conference



You can give your  
feedback here

You can download your  
e-Certificates by clicking this  
link from 25<sup>th</sup> January, 2021  
(5pm)



**SKR GOVERNMENT DEGREE COLLEGE (W),**  
**RAJAMAHENDRAVARAM**

**Department of Chemistry**

**2021-2022**

**LIST OF FIELD TRIPS.**

<b>S.No.</b>	<b>DATE</b>	<b>NAME OF THE INDUSTRY</b>	<b>CLASS</b>
1.	06/01/2022	Rubber processing unit, Rampachodavaram	III B Sc
2.	24/11/2022 & 26/11/22	Water analysis Dowlaiswaram.	III B Sc
3.	24/02/2023	Ratna plastics, Dowlaiswaram.	I B Sc
4.	27/02/2023	World champion lubricants, Auto nagar.	III B Sc

S.K.R DEGREE COLLEGE(W),RAJAMAHENDRAVARAM

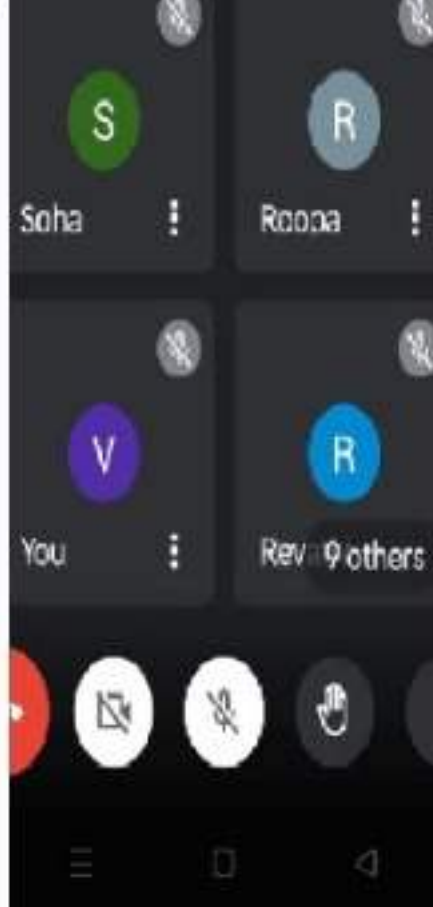
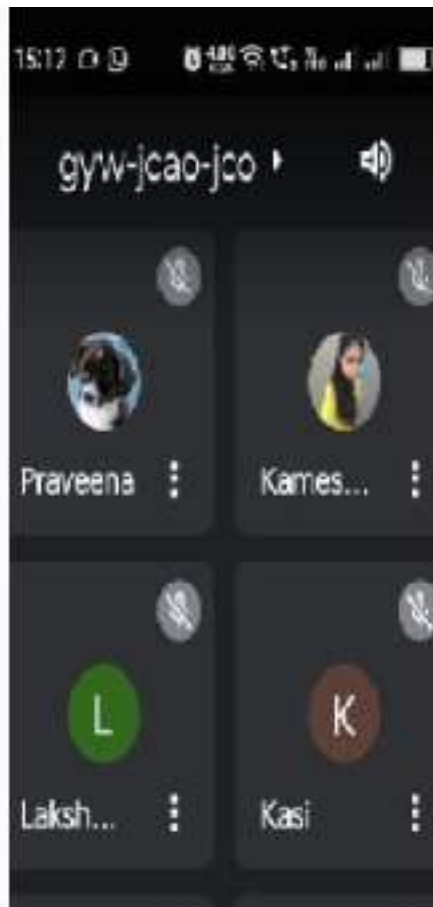
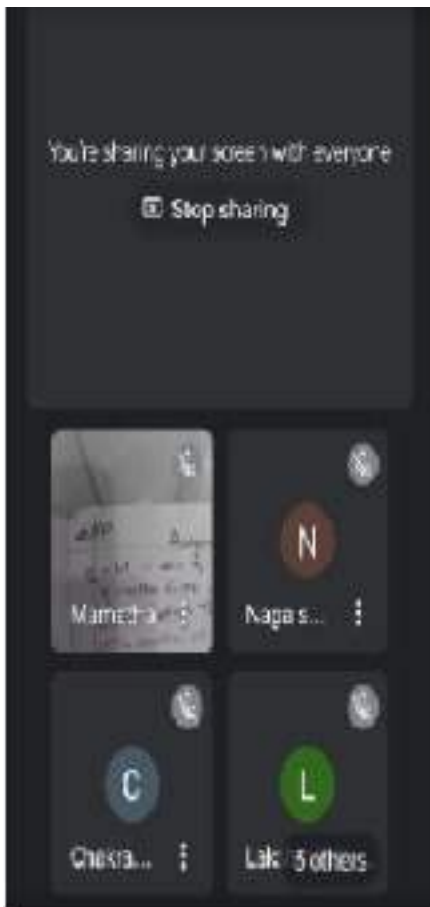
DEPARTMENT OF CHEMISTRY

LIST OF ICT CLASSES

2021-22

S.No	Date	SEMESTER	TOPIC	NAME OF THE FACULTY MEMBER
1.	02/06/2021	V	Hetero cyclic compounds	V.B.T.Sundari
2.	07/06/2021	III	IR Spectrum of compounds	N.Swathi
3.	09/06/2021	III	Principle and Applications of IR	N.Swathi
4.	10/06/2021	I	Inter halogen compounds	V.B.T.Sundari
5.	7/06/2021	I	Structure of Diborane	V.B.T.Sundari
6.	9/06/2021	V	Hetero cyclic compounds	V.B.T.Sundari





**SKR COLLEGE FOR WOMEN, RAJAMAHENDRAVARAM**

**DEPARTMENT OF CHEMISTRY**

**BEST PRACTICE 2021-22**

**ACTIVITY 1: PRACTICE IN PREPARATION OF PAIN BALM & VASELINE**

**1. Title of the Practice**

SKILL DEVELOPMENT – PREPARATION OF HOUSEHOLD CHEMICALS

**2. Objectives of the Practice**

The role of household chemicals is alarming now days with the inflation of prices. In order to overcome this at least the daily household chemicals are to be prepared ourselves, which leads to minimize the family expenditure.

**3. The Context**

The household chemicals and bath soaps can be prepared with meager effort and expenditure. The Bath Soaps, Vaseline and pain balms can be prepared in the houses itself with less effort.

**4. The Practice**

Department of Chemistry is in practice of encouraging the students in preparation of Bath Soaps, , Vaseline and pain balms.

**5. Evidence of Success**

Department of Chemistry involved the students in the preparation of household chemicals and made them more proficient in preparation. With the sale of household chemicals *meager revenue is also generated.*

**ACTIVITY -2: CAMPAIGN IN CONNECTION WITH PAPER BAG DAY**

**1. Title of the Practice**

SKILL DEVELOPMENT – PREPARATION OF HOUSEHOLD CHEMICALS

**2. Objectives of the Practice**

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---



## 6. Problems encountered and resources required

The preparation of cloth bags is an expensive task. It is not possible for the staff of the department to contribute always, hence financial aid should be supported to continue the practice.

