



**GOA UNIVERSITY**  
**SCHOOL OF CHEMICAL SCIENCES**  
(SCS)

**VALUE ADDED COURSE**  
(30 hours)

**CHCS-501 :**

**Laboratory safety, first aid and waste  
management (A course on  
transferable life skills)**

Course duration:

Nov 2022 – Apr 2023

(Saturday, 10:00am-12:00noon)

Venue: LH-1 classroom, SCS

This course is optional, and offered outside the curriculum, that adds value to the holistic development of the students.

**Prerequisites for the course: BSc**

**Course Modules: (30 hours)**

1. Laboratory safety (4 h)
2. Fire safety (4 h)
3. Industrial safety (7 h)
4. Hygiene and occupational safety (5 h)
5. Basic First Aid (5 h)
6. Sewage treatment (5 h)

Detailed syllabus:

[https://www.unigoa.ac.in/uploads/config\\_docs/20220916.07071](https://www.unigoa.ac.in/uploads/config_docs/20220916.07071)

5~SKILL BASED COURSE LAB SAFETY.pdf

**Course Outcome:**

1. Students will be in a position to understand how to work safely while handling chemicals in laboratory and industries.
2. Students will be in a position to help with First aid in case of accidents.
3. Students will be in a position to handle waste management.

Contact details: Dean, SCS dean.scs@unigoa.ac.in

## SCHOOL OF CHEMICAL SCIENCES, GOA UNIVERSITY

Time Table (Semester-IV) 2022-23

M.Sc. Part-II (Chemistry)

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
10:00-11:00	(Tutorial/Remedial) ICO-503 OCO-506 ACO-505 PCO-502	ICO-503 (VMSV) OCO-506 (VKM/SKS) ACO-505 (HKK) PCO-502 (PPM)	CGO-500	CGO-500	Library	Value Added Course	
11:00-12:00	ICO-503 (VMSV) OCO-506 (VKM/SKS) ACO-505 (HKK) PCO-502 (PPM)	ICO-503 (VMSV) OCO-506 (VKM/SKS) ACO-505 (HKK) PCO-502 (PPM)			CGO-500	CGO-500	Value Added Course
12:00-01:00	ICO-501 (KUN/RNJ) OCO-505 (STB/KLD) ACO-502 (DGP/KTD) PCO-501 (APN)	ICO-502 (RKK) OCO-505 (STB/KLD) ACO-503 (REP/KTD) PCO-506 (VRC)					SBSI
02:00-03:00	ICO-502 (RKK) OCO-504 (BAS/RAK) ACO-503 (REP/KTD) PCO-506 (VRC)	ICO-501 (KUN/RNJ) OCO-505 (STB/KLD) ACO-502 (DGP/KTD) PCO-501 (DGN)					Mentoring
03:00-04:00	ICO-501(KUN/RNJ) OCO-504 (BAS/RAK) ACO-502 (DGP/KTD) PCO-501 (DGN)	ICO-502 (RKK) OCO-504 (BAS/RAK) ACO-503 (REP/KTD) PCO-506 (VRC)			Student Seminar		
04:00-05:00	(Tutorial/Remedial) ICO-502 OCO-505 ACO-503 PCO-506	(Tutorial/Remedial) ICO-501 OCO-504 ACO-502 PCO-501	Library	Library			

LUNCH BREAK: 01:00-02:00 pm

Classroom: LH-3/4/5/6. Dissertation: Part-II labs

Sr. No.	Subject code	Paper title	Credits	Teachers
1	ICO-501	Bioinorganic Chemistry	3	KUN, RNJ
2	ICO-502	Catalysis: The basic Chemical concepts	3	RKK
3	ICO-503	Chemistry of P-Block Elements	3	VMSV
4	OCO-504	Retrosynthesis in Organic Chemistry	3	BAS, RAK
5	OCO-505	Heterocyclic Chemistry	3	STB, KLD
6	OCO-506	Introduction to Polymer Chemistry-I: Basic Concepts	3	VKM, SKS
7	ACO-502	Calibrations and Validation in Analytical Chemistry	3	DGP, KTD
8	ACO-503	Advanced Mass Spectrometry	3	REP, KTD
9	ACO-505	Problems on Combined Spectroscopy	3	HKK
10	PCO-501	Solid State Chemistry I: Concepts and Applications	3	DGN, APN
11	PCO-502	Catalysis: Fundamentals and Applications	3	PPM
12	PCO-506	Nanoscience: Concepts and Applications	3	VRC
13	CGO-500	Dissertation	6	VMSV, SND, RKK, SRN, KUN, BAS, VKM, STB, RAK, KLD, DGP, REP, HKK, SAK, PSV, KTD, RNS, PPM, APN, DGN, VRC, NJ
14	CHCS-501	Laboratory safety, first aid and waste management (Value added course)	2	DGP, PSV, RAK, VRC, BAS, REP, STB, KBD, APK
15	Mentoring	NET/SET/GATE/Competitive exam/ Mentor-Mentee Interaction	-	-

Date: 30/11/2022

Program Director

Vice Dean (Academic)

Dean, SCS

**ANNEXURE-III****Programme: M. Sc. Chemistry (Skill Based Course)****Course Code:- CHCS-501****Title of the Course: Laboratory safety, first aid and waste management (A course on transferable life skills)****Number of Credits: 02****Total Hours: 30****Effective from AY: 2022-2023**

<b>Prerequisites for the Course:</b>	Should have studied B. Sc.	
<b>Course Objective:</b>	1. Study of various concepts related to laboratory and industrial safety. 2. Study of various methods and techniques for First aid. 3. Study of various methodologies of waste management.	
<b>Course Outcome:</b>	1. Students will be in a position to understand how to work safely while handling chemicals in laboratory and industries. 2. Students will be in a position to help with First aid in case of accidents. 3. Students will be in a position to handle waste management.	
<b>Content</b>		<b>Hours</b>
<b>1. Laboratory safety.</b> 1.1. Responsibilities in laboratory <ul style="list-style-type: none"><li>- Purpose and responsibilities</li><li>- Basic laboratory safety practices</li></ul> 1.2. Chemical Managements <ul style="list-style-type: none"><li>- Introduction to chemical inventory and material safety data sheet</li><li>- Chemical storage and chemical labelling</li><li>- Transportation of chemicals in laboratory</li><li>- Special chemical hazards</li></ul> 1.3. Introduction to Personal protective equipments. <ul style="list-style-type: none"><li>- Eye protection, face protection, hand protection, head protection, foot protection, protective clothing, respiratory protection and hearing protection.</li></ul> 1.4. Safe handling of glasswares		4
<b>2. Fire Safety:</b> 2.1. Chemistry of Fire <ul style="list-style-type: none"><li>- Fire Tetrahedron</li><li>- Combustion</li></ul>		4

<ul style="list-style-type: none"> <li>- Flame <ul style="list-style-type: none"> <li>-Premixed and Diffusion Flame, Practical Examples of Premixed Flames and Diffusion Flames</li> </ul> </li> <li>- Ignition</li> <li>- Self Heating and Spontaneous Combustion, Smoldering</li> <li>- Stages in a Fire</li> <li>- Heat Transfer</li> <li>- Fire Hazards of Materials</li> <li>- Sources of Information on Hazardous Materials</li> </ul> <p>2.2. Fire Extinguishment</p> <ul style="list-style-type: none"> <li>- Classifications of Fires</li> <li>- Extinguishing Agents <ul style="list-style-type: none"> <li>-Water, Carbon Dioxide, Halogenated Agents / Clean Agents, Dry Chemicals, Foam Extinguishing Agents, Combustible Metal Extinguishing Agents, Kitchen Fires</li> </ul> </li> </ul> <p>2.3. Introduction to Fire Extinguishers</p> <ul style="list-style-type: none"> <li>-Fire Extinguisher Use in The Workplace</li> <li>-Maintenance, Inspection, And Testing of portable fire extinguishers</li> </ul>	
<p><b>3. Industrial Safety.</b></p> <p>3.1. Risk, Hazard, types of hazards</p> <ul style="list-style-type: none"> <li>-Introduction to engineering controls and administrative controls</li> </ul> <p>3.2. Safety in industry</p> <ul style="list-style-type: none"> <li>- Safe/Unsafe Condition, Safe/Unsafe Acts, Near Miss</li> <li>- Risk Assessment (Procedure and protocols with example)</li> </ul> <p>3.3. Hazardous Chemical Waste</p> <ul style="list-style-type: none"> <li>- Types of Waste, Waste minimization</li> <li>- Waste Management, segregation and disposal</li> </ul> <p>3.4. Demonstration</p> <ul style="list-style-type: none"> <li>- Mock fire drill</li> <li>- Mock evacuation drill</li> <li>- Safety audits</li> </ul>	7
<p><b>4. Hygiene and Occupational safety</b></p> <ul style="list-style-type: none"> <li>- Introduction to Occupational Safety and Health, occupational hygiene</li> <li>- Basics of Ergonomic; Ergonomic disorders and preventive measures for improved health and safety</li> <li>- Selecting appropriate ergonomic chair, manual material handling</li> </ul>	5

<ul style="list-style-type: none"> <li>- Musculoskeletal exercises for lab personnel</li> <li>- Need for Hygiene and types of Hygiene (demonstration)</li> </ul>		
<b>5. Basic First Aid</b> 5.1. Introduction to First Aid <ul style="list-style-type: none"> <li>- Origin, aim and scope of first aid, Overview of the human body</li> </ul> 5.2. First aid equipment <ul style="list-style-type: none"> <li>- Contents of the first aid box</li> <li>- Role and responsibilities of a first aider</li> <li>- Assessing the situation and acting safely, effectively and promptly in an emergency</li> </ul> 5.3. Emergency care <ul style="list-style-type: none"> <li>- Assessing the Victim: primary survey, secondary survey, head-to-toe examination, monitoring vital signs</li> <li>- use of eyewash and showers for chemical spillage</li> <li>- Cardiopulmonary Resuscitation (CPR)</li> <li>- Airway Obstructions</li> <li>- Controlling Bleeding</li> <li>- Managing unconscious casualty: checking and monitoring breathing and circulation, life-saving priorities for unconscious adults, unconscious child, unconscious infant.</li> </ul> 5.4. Protocols for Common injuries and their immediate care for different emergencies <ul style="list-style-type: none"> <li>- Shock, Wounds and soft tissue Injuries, Burns, Head and spinal Injuries, Chest, Abdominal and Pelvic Injuries, Bone, Joint and Muscle Injuries, Extremity Injuries and Splinting, Poisoning, Bites and Stings</li> </ul> Sudden illness, Drowning, hyperventilation, asthma, Cold and heat emergencies, Electrical Incidences, choking in adults and infants.		5
<b>6. Sewage Treatment</b> 6.1. Introduction to the waste treatments, Types of waste: Solid, Liquid and Gaseous <ul style="list-style-type: none"> <li>- Environmental laws: The water (Pollution and control of pollution) Act, 1974</li> </ul> 6.2. General characteristics of waste: Liquid waste - Electrical conductivity, pH, COD, BOD, TS and TDS, total suspended solids, total volatile solids, chlorides, sulphates, oil & grease. 6.3. Waste Water Treatment Technologies: A. Primary treatment methods B. Secondary treatment methods and C. Tertiary treatment methods <ul style="list-style-type: none"> <li>- Sludge disposal: Methods of sludge disposal. Sources and effects of sludge on environment.</li> </ul> 6.4. Visit to Sewage treatment plant.		5
<b>Pedagogy</b>	Lectures & tutorials. Seminars / assignments / presentations / demonstrations / self-study or a combination of some of these could also be used.	

<b>References /Readings:</b>	<ol style="list-style-type: none"> <li>1. C. C. Fevzi and I. Adnan, Laboratory safety handbook, 1<sup>st</sup> Edition, 2016, Sabanci University.</li> <li>2. Laboratory safety manual, Environmental Health and Safety Department, University of Washington, December 2021 Edition. (<a href="http://www.ehs.washington.edu">www.ehs.washington.edu</a>)</li> <li>3. D. Philpott, Fundamentals of Fire Protection for the Safety Professional, 3<sup>rd</sup> Edition, 2022, Bernan Press.</li> <li>4. Indian Standard- 2190:2010, Selection, Installation and Maintenance of First-Aid Fire Extinguishers — Code of Practice (Fourth Revision) (<a href="http://tricone.co.in/Downloads/selection,installation_and_maintenance_of_first-Aid_Fire_Extinguishers1_IS%201290.pdf">http://tricone.co.in/Downloads/selection,installation_and_maintenance_of_first-Aid_Fire_Extinguishers1_IS%201290.pdf</a>)</li> <li>5. K. R. Muller, Chemical waste handling and treatment, 1<sup>st</sup> Edition, 1986, Springer Verlag Berlin Heidelberg.</li> <li>6. Prudent practices in the laboratory: handling and management of chemical hazards, the National Academic Press, 2<sup>nd</sup> Edition, 2011, National Academies Press.</li> <li>7. K. Park, Park's text book of Preventive and Social Medicine, 19<sup>th</sup> Edition, 2007, Banarsidas Bhanot publishers, India</li> <li>8. NIEHS Health and Safety Guide to Laboratory Ergonomics. (<a href="https://ehs.uky.edu/docs/pdf/ohs_erg_ergonomics_guide_0001.pdf">https://ehs.uky.edu/docs/pdf/ohs_erg_ergonomics_guide_0001.pdf</a>)</li> <li>9. M. B. Pamela, Ergonomics Foundational Principles Applications and Technologies, 1<sup>st</sup> Edition, 2021, Taylor &amp; Francis publisher.</li> <li>10. The authorized manual of St. John Ambulance, St. Andrew's Ambulance association and the British red cross society, First Aid manual, 9<sup>th</sup> Edition, 2011, Dorling Kindersley.</li> <li>11. J. R. Krohmer, American college of emergency physicians First Aid manual, 5<sup>th</sup> Edition, Dorling Kindersley.</li> <li>12. I. Clement, Text book on First Aid &amp; Emergency Nursing, 1<sup>st</sup> Edition, 2012, JP brothers.</li> <li>13. P. Jevon, Emergency care and First Aid for Nurses, A practical guide, 1<sup>st</sup> Edition, 2007, Churchill Living Stone.</li> <li>14. M. N. Rao and A.K. Datta, Waste Water Treatment, 3<sup>rd</sup> Edition, 2017, Oxford &amp; IBH Publishing Co. Pvt. Ltd.</li> <li>15. M. J. Hammer, Sewage and waste treatment, 7<sup>th</sup> Edition, 2012, Prentice Hall India Learning Private Limited.</li> </ol>
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**Goa University**  
**School of Chemical Sciences**  
Value added course (30 hours)

2022-23

CHCS-501 Laboratory safety, First aid and waste management

List of students

Seat No	Student Name	Specialization
21P049001	Andrade Amanda Severina	Analytical Chemistry
21P049002	Barve Shruti Prasanna	Analytical Chemistry
21P049005	Borkar Akshay Deepak	Analytical Chemistry
21P049008	Coutinho Jewella Britney	Analytical Chemistry
21P049015	Dias Kimberly Mary	Analytical Chemistry
21P049019	Fernandes Kate	Analytical Chemistry
21P049024	Gaonkar Samiksha Shamba	Analytical Chemistry
21P049032	Kholkar Tanuja Ashok	Analytical Chemistry
21P049034	M Shivani	Analytical Chemistry
21P049037	Mandrekar Navin Mohan	Analytical Chemistry
21P049039	Vandit Mardolkar	Analytical Chemistry
21P049046	Naik Deepraj Pandurang	Analytical Chemistry
21P049047	Naik Navanki Namdev	Analytical Chemistry
21P049057	Palyekar Tanay Sudhakar	Analytical Chemistry
21P049063	Patgar Shrushti Govind	Analytical Chemistry
21P049077	Coutinho Savia Justino	Analytical Chemistry
21P049081	Sayyad Oumaysaouda Hifzul Rehman	Analytical Chemistry
21P049083	Sharma Sheetal	Analytical Chemistry
21P049084	Shenvi Karapurkar Apurva Nitin	Analytical Chemistry
21P049092	Velip Deepti Krishna	Analytical Chemistry
21P049006	Braganca Elvy Rena	Inorganic Chemistry
21P049014	Dias Edsel Xavier	Inorganic Chemistry
21P049018	Fernandes Jenny	Inorganic Chemistry
21P049027	Gomes Vini	Inorganic Chemistry
21P049028	Kamat Neha Datta	Inorganic Chemistry
21P049029	Kamat Saharsha Sanjay	Inorganic Chemistry
21P049036	Mainkar Krutika Mahadev	Inorganic Chemistry
21P049042	Modak Priyanka Sudin	Inorganic Chemistry
21P049050	Naik Shama R	Inorganic Chemistry
21P049053	Naik Tejal Tulsidas	Inorganic Chemistry
21P049055	Naik Vishaka Damodar	Inorganic Chemistry
21P049058	Parab Aditi Rajendra	Inorganic Chemistry
21P049062	Parwar Shankar Ramnath	Inorganic Chemistry
21P049066	Pereira Aleta	Inorganic Chemistry
21P049068	Gaonkar Prachita Chandro	Inorganic Chemistry
21P049069	Revodkar Jeevita Jeevan	Inorganic Chemistry

21P049072	Salgaonkar Priyanka Prakash	Inorganic Chemistry
21P049080	Sawant Sanisha Surendra	Inorganic Chemistry
21P049082	Shaikh Amina Mohammed Akbar	Inorganic Chemistry
21P049088	Tari Jatin Dnyaneshwar	Inorganic Chemistry
21P049089	Gaonkar Upma Ulhas	Inorganic Chemistry
21P049096	Yallurkar Peetambar	Inorganic Chemistry
21P049003	Bhobe Shreya Ganesh	Organic Chemistry
21P049004	Bhonsle Akshata	Organic Chemistry
21P049007	Colaco Ria Infancia Velerie	Organic Chemistry
21P049009	Crasto Navita Henriqueta	Organic Chemistry
21P049012	Dessai Gajain Vishwas	Organic Chemistry
21P049016	Faterpekar Rohan Ramesh	Organic Chemistry
21P049023	Gaonkar Rupesh Dilip	Organic Chemistry
21P049026	Gawas Rutika Ramnath	Organic Chemistry
21P049030	Kanti Hanumant Mayanikar	Organic Chemistry
21P049031	Kanvi Hanumant Mayanikar	Organic Chemistry
21P049033	Kinalekar Purva Mahadev	Organic Chemistry
21P049038	Gaonkar Manjusha Mahadev	Organic Chemistry
21P049041	Mayekar Shanti Murari	Organic Chemistry
21P049043	Naik Aakansha Rajesh	Organic Chemistry
21P049051	Naik Shubham Santosh	Organic Chemistry
21P049054	Naik Vaishnavi Pramod	Organic Chemistry
21P049060	Parab Sneha Pradeep	Organic Chemistry
21P049070	Rivonker Shubham Chandrashekher	Organic Chemistry
21P049071	Salgaonkar Kajal Namdev	Organic Chemistry
21P049073	Salkar Vaishnavi Pandurang	Organic Chemistry
21P049078	Sawant Devendra Ladu	Organic Chemistry
21P049079	Sawant Rahul Vilas	Organic Chemistry
21P049085	Shenvi Sangaonkar Suyash Chandrashekhar	Organic Chemistry
21P049087	Singh Karishma Suresh /PWD	Organic Chemistry
21P049097	Zore Surekha Devidas	Organic Chemistry
21P049011	Da Cruz Fernandes Shanaia Tabitha	Physical Chemistry
21P049013	Desur Bibi Sakina Ibrahim	Physical Chemistry
21P049022	Gaonkar Diksha Ravikant	Physical Chemistry
21P049025	Gaude Mithun Babani	Physical Chemistry
21P049035	Mainikar Mohit Dilip	Physical Chemistry
21P049044	Naik Aishwarya Anil	Physical Chemistry
21P049045	Naik Akhil Ashok	Physical Chemistry
21P049048	Naik Rakshali Ramdas	Physical Chemistry
21P049049	Naik Saloni Sandeep	Physical Chemistry
21P049052	Naik Tanay Gopal	Physical Chemistry
21P049059	Parab Pankaj Vishnu	Physical Chemistry
21P049067	Hebram Pooja	Physical Chemistry
21P049074	Samant Shivani Vallabh	Physical Chemistry

21P049076	Desai Sarvesh Sanjiv	Physical Chemistry
21P049090	Vaigankar Chandani Hanumant	Physical Chemistry
21P049095	Viegas Bernice Minoshka	Physical Chemistry
21P046001	Angadi Aishwarya Rajendra	Biochemistry
21P046002	Chigadinkopkar Vidhya Ramdas	Biochemistry
21P046003	Gaonkar Brijesh Raju	Biochemistry
21P046005	Ghadi Sumedha Vinayak	Biochemistry
21P046007	Haldankar Siddhi Santosh	Biochemistry
21P046008	Kanyal Roshan Begum	Biochemistry
21P046010	Shrivastav Khushi Sanjay	Biochemistry
21P046012	Manerker Gauravi Praveen	Biochemistry
21P046013	Maurya Neha	Biochemistry
21P046014	Menon Sudhin Sukumaran	Biochemistry
21P046016	Panday Namitha	Biochemistry

SCHOOL School of Dental Sciences  
COURSES CHS-501 Classrooming English, First Part

# GOA UNIVERSITY ATTENDANCE SHEET

Programme Name: M.Sc Chemistry  
Academic Year 2022-2022  
Semester IV

Teacher's Name (Code) CA Course on Pharmacokinetics & PK (19)

Total number of lectures delivered by the teacher during the Semester

Sl. No.	Name of the Student	Date of lectures												Total	Remarks
		28/11/23	29/11/23	30/11/23	01/12/23	02/12/23	03/12/23	04/12/23	05/12/23	06/12/23	07/12/23	08/12/23	09/12/23		
	No. of lectures delivered	01	01	01	01	01	01	01	01	01	01	01	01		
1	Shreyas G. Bhobe	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
2	Ankusha Kanat	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
3	Pooja Hebbar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
4	Apurva N.S. Karpurkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
5	Chandani H. Vaidyanathan	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
6	Neha D. Kamat	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
7	Ashwini R. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
8	Tijal T. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
9	Savisha S. Sarant	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
10	Shikha R. Gaonkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
11	Swella Bhatnagar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
12	Jyashika R. Kulkarni	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
13	Vin. Gomes	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
14	Savesh S. Desai	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
15	Noranki N. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
16	Tanay S. Patilkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
17	Tanuj A. Kholkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
18	Ranjay V. Parsh	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
19	Sudhin Menon	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
20	Deepraj. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
21	Brishabh Gaonkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
22	Edoel Xavier. Dias	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
23	Krushik Shivastav	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
24	Vidhya Chigantinkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
25	Rohan Falekpekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present		
	Signature of the Teacher														
	Signature of the Programme Director / Vice Dean / Dean														

NOTE: (a) The students shall put their signatures against their respective names at every lecture / class

SCHOOL \_\_\_\_\_  
 COURSES \_\_\_\_\_

(Code) \_\_\_\_\_ (Title) \_\_\_\_\_

# GOA UNIVERSITY

## ATTENDANCE SHEET

Teacher's Name \_\_\_\_\_

Programme Name : \_\_\_\_\_  
 Academic Year : \_\_\_\_\_  
 Semester : \_\_\_\_\_  
 Total number of lectures delivered by the teacher during the Semester \_\_\_\_\_

Sl. No.	Name of the Students	Date of lectures												Total	Remarks
		10/12/23	11/02/23	12/02/23	13/02/23	14/02/23	15/02/23	16/02/23	17/02/23	18/02/23	19/02/23	20/02/23	21/02/23		
26	Gagan Datta														
27	Rohit Dilip Gaonkar														
28	Rahul Vilas Sawant														
29	Shivaji V. Sawant														
30	Shresh P. Bhave														
31	Vaishnavi P. Malik														
32	Kavya Mayankkar														
33	Shubham S. Malik														
34	Pranav S. S. S. Malik														
35	Suyash. Shriv. Sargankar														
36	Vishal Mendalkar														
37	Shantanu P. Sargankar														
38	Pranav Modak														
39	Shubham R. Sargankar														
40	Pranav R. Sargankar														
41	Vishal Malik														
42	Nehal Mankar														
43	Bhaskar Viegas														
44	Pranav R. Sargankar														
45	Pranav R. Sargankar														
46	Pranav R. Sargankar														
47	Surekha. devides zore														
48	Rudika R. Gaivas														
49	Pranav R. Sargankar														
50	Pranav R. Sargankar														
51	Pranav R. Sargankar														
52	Pranav R. Sargankar														

Signature of the Programme Director / Vice Dean / Dean  
 Date: \_\_\_\_\_  
 NOTE: (a) The students should put their signatures against their

(Title)

Programme Name: Ph Chemistry  
Academic Year: 2022-23  
Semester: 8 V  
Total number of lectures delivered by the teacher: \_\_\_\_\_

Total number of lectures delivered by the teacher

during the Semester

**Signature of the Programme Director / Vice Dean / Dean**

NOTE: (8) The students shall put their signatures against their

SCHOOL \_\_\_\_\_

COURSES \_\_\_\_\_

(Title)

1

during the Semester

[illegible]



गोंय विद्यापीठ

ताळगांव पठार

गोंय - ४०३ २०६

फोन: +९१-८६६९६०९०४८



Goa University

Taleigao Plateau, Goa - 403 206

Tel : +91-8669609048

Email : registrar@unigoa.ac.in

Website: www.unigoa.ac.in

(Accredited by NAAC)

## SCHOOL OF CHEMICAL SCIENCES

### CERTIFICATE

This is to certify that Mr./Ms. **Parwar Shankar Ramnath**, Roll No. **21P049062**, student of M.Sc. Part-II Inorganic Chemistry, has attended a Skill Based Course on transferable life skills, titled "Laboratory safety, first aid and waste management" (CHCS-501) conducted by the School of Chemical Sciences, Goa University, for 30 hours (2 credits) from January 2023 to April 2023 which is over and above the regular postgraduate programme credits.

Date: 21/06/2023

Seal:



  
21/06/2023

(Prof. Vidhyadatta M. S. Verenkar)

Dean

School of Chemical Sciences

Goa University



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### CERTIFICATE

This is to certify that Mr./Ms. **Rivonker Shubham Chandrashekher**,  
Roll No. 21P049070, student of M.Sc. Part-II Organic Chemistry, has  
attended a Skill Based Course on transferable life skills, titled "Laboratory  
safety, first aid and waste management" (CHCS-501) conducted by the  
School of Chemical Sciences, Goa University, for 30 hours (2 credits)  
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### CERTIFICATE

This is to certify that Mr./Ms. **Viegas Bernice Minoshka**, Roll No. **21P049095**, student of M.Sc. Part-II Physical Chemistry, has attended a Skill Based Course on transferable life skills, titled "Laboratory safety, first aid and waste management" (CHCS-501) conducted by the School of Chemical Sciences, Goa University, for 30 hours (2 credits) from January 2023 to April 2023 which is over and above the regular postgraduate programme credits.

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### CERTIFICATE

This is to certify that Mr./Ms. **Ghadi Sumedha Vinayak**, Roll No. **21P046005**, student of M.Sc. Part-II Biochemistry, has attended a Skill Based Course on transferable life skills, titled "Laboratory safety, first aid and waste management" (CHCS-501) conducted by the School of Chemical Sciences, Goa University, for 30 hours (2 credits) from January 2023 to April 2023 which is over and above the regular postgraduate programme credits.

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### CERTIFICATE

This is to certify that Mr./Ms. **Naik Deepraj Pandurang**, Roll No. **21P049046**, student of M.Sc. Part-II Analytical Chemistry, has attended a Skill Based Course on transferable life skills, titled “Laboratory safety, first aid and waste management” (CHCS-501) conducted by the School of Chemical Sciences, Goa University, for 30 hours (2 credits) from January 2023 to April 2023 which is over and above the regular postgraduate programme credits.

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21/06/2023

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