



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 2023 – Apr 2024
(Monday & Tuesday,
02:30pm-03:30pm)

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/20220916.070715~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

GOA UNIVERSITY
SCHOOL OF CHEMICAL SCIENCES

Time Table (Semester-IV) Nov 2023 - Apr 2024

M.Sc. Part-II (Chemistry)

w.e.f. 27/11/2023 - 16/04/2024

<i>Time</i>	Monday	Tuesday	Wednesday	Thursday	Friday
09:30-10:30	CHC-651	CHC-651	CHC-651	CHC-651	CHC-651
10:30-11:30	CHC-651	CHC-651	CHC-651	CHC-651	CHC-651
11:30-12:30	CHA-602 /CHI-602 /CHO-602 /CHP-602	CHA-602 /CHI-602 /CHO-602 /CHP-602	CHC-651	CHC-651	CHC-651
01:30-02:30	CHA-602 /CHI-602 /CHO-602 /CHP-602	CHA-602 /CHI-602 /CHO-602 /CHP-602	CHC-651	CHC-651	CHC-651
02:30-03:30	Value added course	Value added course	CHC-651	CHC-651	Student Seminar/ Library /SBSI
03:30-04:30	Library	Library	CHC-651	CHC-651	CHC-651
04:30-05:30	Library / NET mentoring	Library / NET mentoring	CHC-651	CHC-651	CHC-651

Lunch Break 12:30-01:30pm

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

Sr. No.	Subject code	Paper title	Credits	Teachers (Credits)
1	CHA-602	Advanced Mass Spectrometry	4	REP (2), PSV (2)
2	CHI-602	Principles and applications in catalysis	4	RKK (4)
3	CHO-602	Retrosynthesis and Heterocyclic Chemistry	4	BAS (2), STB (1), VKM (1)
4	CHP-602	Heterogeneous Catalysis: Fundamentals and Applications	4	PPM (3), NJ (1)
5	CHC-651	Dissertation	12	ALL
6	CHCS-501	Value added course	2	KBD (Incharge)

Rahul
24/11/23

Program Director (Chemistry)

[Signature]

Vice Dean (Academic)

[Signature]
24/11/23

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**

Prerequisites for the Course:	Should have studied B. Sc.	
Course Objective:	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.	
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.	
Content		Hours
1. Laboratory safety. 1.1. Responsibilities in laboratory - Purpose and responsibilities - Basic laboratory safety practices 1.2. Chemical Managements - Introduction to chemical inventory and material safety data sheet - Chemical storage and chemical labelling - Transportation of chemicals in laboratory - Special chemical hazards 1.3. Introduction to Personal protective equipments. - Eye protection, face protection, hand protection, head protection, foot protection, protective clothing, respiratory protection and hearing protection. 1.4. Safe handling of glasswares		4
2. Fire Safety: 2.1. Chemistry of Fire - Fire Tetrahedron - Combustion		4

- Flame -Premixed and Diffusion Flame, Practical Examples of Premixed Flames and Diffusion Flames - Ignition - Self Heating and Spontaneous Combustion, Smoldering - Stages in a Fire - Heat Transfer - Fire Hazards of Materials - Sources of Information on Hazardous Materials 2.2. Fire Extinguishment - Classifications of Fires - Extinguishing Agents -Water, Carbon Dioxide, Halogenated Agents / Clean Agents, Dry Chemicals, Foam Extinguishing Agents, Combustible Metal Extinguishing Agents, Kitchen Fires 2.3. Introduction to Fire Extinguishers -Fire Extinguisher Use in The Workplace -Maintenance, Inspection, And Testing of portable fire extinguishers	
3. Industrial Safety. 3.1. Risk, Hazard, types of hazards -Introduction to engineering controls and administrative controls 3.2. Safety in industry - Safe/Unsafe Condition, Safe/Unsafe Acts, Near Miss - Risk Assessment (Procedure and protocols with example) 3.3. Hazardous Chemical Waste - Types of Waste, Waste minimization - Waste Management, segregation and disposal 3.4. Demonstration - Mock fire drill - Mock evacuation drill - Safety audits	7
4. Hygiene and Occupational safety - Introduction to Occupational Safety and Health, occupational hygiene - Basics of Ergonomic; Ergonomic disorders and preventive measures for improved health and safety - Selecting appropriate ergonomic chair, manual material handling	5

- Musculoskeletal exercises for lab personnel - Need for Hygiene and types of Hygiene (demonstration)		
5. Basic First Aid 5.1. Introduction to First Aid - Origin, aim and scope of first aid, Overview of the human body 5.2. First aid equipment - Contents of the first aid box - Role and responsibilities of a first aider - Assessing the situation and acting safely, effectively and promptly in an emergency 5.3. Emergency care - Assessing the Victim: primary survey, secondary survey, head-to-toe examination, monitoring vital signs - use of eyewash and showers for chemical spillage - Cardiopulmonary Resuscitation (CPR) - Airway Obstructions - Controlling Bleeding - Managing unconscious casualty: checking and monitoring breathing and circulation, life-saving priorities for unconscious adults, unconscious child, unconscious infant. 5.4. Protocols for Common injuries and their immediate care for different emergencies - 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 Sudden illness, Drowning, hyperventilation, asthma, Cold and heat emergencies, Electrical Incidences, choking in adults and infants.		5
6. Sewage Treatment 6.1. Introduction to the waste treatments, Types of waste: Solid, Liquid and Gaseous - Environmental laws: The water (Pollution and control of pollution) Act, 1974 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 - Sludge disposal: Methods of sludge disposal. Sources and effects of sludge on environment. 6.4. Visit to Sewage treatment plant.		5
Pedagogy	Lectures & tutorials. Seminars / assignments / presentations / demonstrations / self-study or a combination of some of these could also be used.	

References /Readings:	1. C. C. Fevzi and I. Adnan, Laboratory safety handbook, 1st Edition, 2016, Sabanci University. 2. Laboratory safety manual, Environmental Health and Safety Department, University of Washington, December 2021 Edition. (www.ehs.washington.edu) 3. D. Philpott, Fundamentals of Fire Protection for the Safety Professional, 3rd Edition, 2022, Bernan Press. 4. Indian Standard- 2190:2010, Selection, Installation and Maintenance of First-Aid Fire Extinguishers — Code of Practice (Fourth Revision) (http://tricone.co.in/Downloads/selection,installation_and_maintenance_of_first-Aid_Fire_Extinguishers1_IS%201290.pdf) 5. K. R. Muller, Chemical waste handling and treatment, 1st Edition, 1986, Springer Verlag Berlin Heidelberg. 6. Prudent practices in the laboratory: handling and management of chemical hazards, the National Academic Press, 2nd Edition, 2011, National Academies Press. 7. K. Park, Park's text book of Preventive and Social Medicine, 19th Edition, 2007, Banarsidas Bhanot publishers, India 8. NIEHS Health and Safety Guide to Laboratory Ergonomics. (https://ehs.uky.edu/docs/pdf/ohs_erg_ergonomics_guide_0001.pdf) 9. M. B. Pamela, Ergonomics Foundational Principles Applications and Technologies, 1st Edition, 2021, Taylor & Francis publisher. 10. The authorized manual of St. John Ambulance, St. Andrew's Ambulance association and the British red cross society, First Aid manual, 9th Edition, 2011, Dorling Kindersley. 11. J. R. Krohmer, American college of emergency physicians First Aid manual, 5th Edition, Dorling Kindersley. 12. I. Clement, Text book on First Aid & Emergency Nursing, 1st Edition, 2012, JP brothers. 13. P. Jevon, Emergency care and First Aid for Nurses, A practical guide, 1st Edition, 2007, Churchill Living Stone. 14. M. N. Rao and A.K. Datta, Waste Water Treatment, 3rd Edition, 2017, Oxford & IBH Publishing Co. Pvt. Ltd. 15. M. J. Hammer, Sewage and waste treatment, 7th Edition, 2012, Prentice Hall India Learning Private Limited.
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Goa University
School of Chemical Sciences

Value added course

2023-24

Laboratory safety, First aid and waste management

List of students

22P0490002 AISHWARYA ARUN VAIGANKAR
22P0490003 AMISHA DEEPAK ANSURKER
22P0490006 ANURAG SAWANT
22P0490008 ASMITA BHAKTARAJ PHADTE
22P0490009 CHAITALI GURUDAS NAIK
22P0490010 CHANDRAKANT SAJJAN RAUT
22P0490012 CHETAN SONU PARAB
22P0490015 DAYEKAR PRALAY PRABHAKER
22P0490016 DEEPTI ARUN MOHITE
22P0490017 DEEPTI NANDAKUMAR NAIK
22P0490018 DESAI PAVAN PRASHANT
22P0490019 ELVISHA COLACO
22P0490020 ESHITA RAGHUNATH KAKODKAR
22P0490021 FREDAL STEPHEN FERNANDES
22P0490022 GAGNESH GAONKAR
22P0490023 GAJESH DAYANAND GAONKAR
22P0490024 GAUDE AGADYEKAR VAISHNAVI SURESH
22P0490025 GAURANG ACHAREKAR
22P0490026 GULREZ SAMEER SHEIKH
22P0490027 HARISH NANDAN NAIK
22P0490028 HARISHKUMAR DEVIDAS NAIK
22P0490029 HARSHAD VITHAL GAUDE
22P0490031 HRIDDHI ANANT BONDRE
22P0490032 JESHER ELIE MIRANDA
22P0490033 KALPANA PRAKASH GAONKAR
22P0490034 KAVITAKUMARI V BIND
22P0490037 MANISHA ASHOK KAMBLE
22P0490039 MARK RODRIGUES
22P0490042 NIKITA KUMARI
22P0490043 NISHANKA VISHNU NAIK
22P0490044 OMKAR SHANKAR CHODANKAR
22P0490045 PARAG PREMANAND NAIK
22P0490046 PRACHI PRASHANT VAIDHYA
22P0490047 PRATHAM VITHURAI KURTIKAR
22P0490049 PRIYA SINGH
22P0490050 RAVINA STEFY VAZ
22P0490051 RISHABH SAMEER KENY
22P0490052 ROSHANI PRADEEP MAKHWANI
22P0490053 RUDRAKSH RAMCHANDRA NAIK
22P0490054 RUPALI VITTAL MESTRY

22P0490055 SAINESH RAMAKANT NAIK
22P0490056 SAISHIL RAJESH BORKAR
22P0490057 SAMIKSHA VIJAYANAND NAIK
22P0490058 SAMUEL ANTHONY FERNANDES
22P0490060 SATYA SANJIV SHENVI KUNKALIENKAR
22P0490061 SAVANT NEHA SHRIKANT
22P0490062 SEJAL SANTOSH NAIK
22P0490063 SEJAL SURYA PARRIKAR
22P0490064 SHANAIA DA COSTA
22P0490066 SHEFFALI JEEVAN JENA
22P0490067 SHINY SHIVDAS BORKAR
22P0490069 SHIVANI SURYADEEP DESAI
22P0490070 SHREESHA HARICHANDRA KHANDEPARKAR
22P0490071 SHREYA KUSHA GAUNEKAR
22P0490072 SHREYASH ANANT SAWANT
22P0490073 SHRUNGI VASANT BHATKAR
22P0490074 SHRUTI RAMDAS CHARI
22P0490076 SIDDHIKA UTTAM GAONKAR
22P0490077 SONAL PRABHAKAR NAIK
22P0490078 SONAL SANTOSH JAISWAL
22P0490079 SONALI SUBHASH GAVADA
22P0490080 SUJAY SURYAKANT GAUDE
22P0490082 TANISHA MANGIRISH SHENVI MAVJEKAR
22P0490085 TARI TANAVI VINOD
22P0490086 TEJASWEE GAONKAR
22P0490087 VAIBHAV SHANTARAM ASOLKAR
22P0490088 VAISHNAVI VITHAL GAWAS
22P0490089 VAISHYNAVI ANAND S JAMBULKAR
22P0490090 VINEESHA VIJAYANAND SAUNDATIKAR
22P0490091 VISHANT MANYO GAONKAR
22P0490092 VRUTI VINAYAK MAYEKAR

ATTENDANCE SHEET

(and make management)
A course on management life skills
(Title)

Programme Name : M.Sc Chemistry
Academic Year : 2023-2024
Semester : 4
Total number of lectures delivered by the teacher during the Semester : _____

Semester 4

Total number of lectures delivered by the teacher

Date of Lectures		23/10/23	24/11/23	5/11/23	11/11/23	11/11/23	Total	Remarks
Time of Lectures		2.30 - 3.30 pm	2.30 - 3.30 pm	2.30 - 3.30 pm	2.30 - 3.30 pm	2.30 - 3.30 pm		
No. of lectures delivered		1	1	1	1	1		
Sr. No.	Name of the Students							
1	Nishanka V. Naik	Naik	Naik	Naik	Naik	Naik		
2	Hudduti A Bontade	Bontade	Bontade	Bontade	Bontade	Bontade		
3	Kanika kumari V. Rind	Kanika	Kanika	Kanika	Kanika	Kanika		
4	Satya S. Sharni Kunkalankar	Sharni	Sharni	Sharni	Sharni	Sharni		
5	Shreya Gauravkar	Gauravkar	Gauravkar	Gauravkar	Gauravkar	Gauravkar		
6	Mikita Kumari	Kumari	Kumari	Kumari	Kumari	Kumari		
7	Chetan S. Panab	Panab	Panab	Panab	Panab	Panab		
8	Harish Kumar D. Naik	Naik	Naik	Naik	Naik	Naik		
9	Sonal P. Naik	Naik	Naik	Naik	Naik	Naik		
10	Sainesh Naik	Naik	Naik	Naik	Naik	Naik		
11	Saifil R. Borkar	Borkar	Borkar	Borkar	Borkar	Borkar		
12	Shanai S. Dacosta	Dacosta	Dacosta	Dacosta	Dacosta	Dacosta		
13	Tanavi Tari	Tari	Tari	Tari	Tari	Tari		
14	Tanavure Gaekar	Gaekar	Gaekar	Gaekar	Gaekar	Gaekar		
15	Gajish Gaekar	Gaekar	Gaekar	Gaekar	Gaekar	Gaekar		
16	Shruti R. Chari	Chari	Chari	Chari	Chari	Chari		
17	Roshani Makwana	Makwana	Makwana	Makwana	Makwana	Makwana		
18	Ganesh D. Gaekar	Gaekar	Gaekar	Gaekar	Gaekar	Gaekar		
19	Radhika Ramchandra Naik	Naik	Naik	Naik	Naik	Naik		
20	Vaibhav S. Asolkar	Asolkar	Asolkar	Asolkar	Asolkar	Asolkar		
21	Rupali Meshy	Meshy	Meshy	Meshy	Meshy	Meshy		
22	Sujay Gaudade	Gaudade	Gaudade	Gaudade	Gaudade	Gaudade		
23	Samiksha Naik	Naik	Naik	Naik	Naik	Naik		
24	MARK RODRIGUES	RODRIGUES	RODRIGUES	RODRIGUES	RODRIGUES	RODRIGUES		
25	Eluvika Calae	Calae	Calae	Calae	Calae	Calae		
26	Vruti Mayekar	Mayekar	Mayekar	Mayekar	Mayekar	Mayekar		
Signature of the Teacher								
Signature of the Programme Director / Vice Dean / Dean								

SCHOOL of Clinical Sciences
 COURSES CHCS-501 Laboratory safety, First Aid
 (Code) (Title) (Course on transcribe life skills)

GOA UNIVERSITY

ATTENDANCE SHEET

Teacher's Name Dr. Roshni A. Dabekar, Dr. Dhanraj G. Patil, Dr. Rupa B. Patil

Programme Name: M.A. in Chemistry
 Academic Year: 2023-2024
 Semester: 4
 Total number of lectures delivered by the teacher during the Semester

Sr. No.	Name of the Students	Date of Lectures															Total	Remarks
		23/1/24	24/1/24	25/1/24	26/1/24	27/1/24	28/1/24	29/1/24	30/1/24	31/1/24	1/2/24	2/2/24	3/2/24	4/2/24	5/2/24	6/2/24		
27	Amisha Deepak Anurker																	
28	Chaitali G. Naik																	
29	Vivek S. Sankar																	
30	Sonal Fernandes																	
31	Sonal Jaiswal																	
32	Amey Sawant																	
33	Vishant Gokar																	
34	Harsad V. Gaudle																	
35	Shravan V. Bhattacharjee																	
36	Shreshth H. Khadeparkar																	
37	Neha Savant																	
38	Parag P. Naik																	
39	Saurav E. Nirande																	
40	Vaishnavi V. Gaudle																	
41	Prachi A. Vaishya																	
42	Gaurang V. Acharekar																	
43	Chandrabhan Sajjan Raut																	
44	Pratham V. Kumbhar																	
45	Hanshi H. Patil																	
46	Shelvi J. Jena																	
47	Rishabh S. Kumbhar																	
48	Esmita R. Kumbhar																	
49	Vaishnavi S. Gaudle																	
50	Shreyas K. Sawant																	
51	Kapoor P. Gokar																	
52	Prachi A. Naik																	
53	Signature of the Teacher																	
54	Signature of the Programme Director / Vice Dean / Dean																	

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

54 Sushika V. Gokar
 55 Prachi A. Naik
 56 Eshika A. Naik

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 _____

Date of Lectures																						Total	Remarks
Time of Lectures																							
No. of lectures delivered																							
Sl. No. Name of the Students																							
57	Riya Singh	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
58	Manisha Kamble	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
59	Abhishek Gaurav	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
60	Deepthi Nait	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
61	Ashwanya Velgankar	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
62	Deepthi Mohite	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
63	Ravina S Var	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
64	Asmita K. Phadte	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
65	Omkar S. Chaudhkar	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
66	Varun P. Lakshmi	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
67	Devaki S. Gauda	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
68	Sejal Passera	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
69	Vishvavati Jambhale	11/07	18/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	15/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11	10/11	17/11	24/11	
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 SCSCOURSES CHCS-501: Laboratory safety, Hazard

(Code)

and waste management (Title)

GOA UNIVERSITY
ATTENDANCE SHEETProgramme Name: M.ScAcademic Year 2023-24Semester IV

Total number of lectures delivered by the teacher

during the Semester

Teacher's Name

Sl.No	Name of the Students	Date of Lectures												Total	Remarks
		10/12	11/12	12/12	13/12	14/12	15/12	16/12	17/12	18/12	19/12	20/12	21/12		
1	MARK RODRIGUES (22P0490039)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2	SUNANDA D. COSTA (22P0490064)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
3	TANAY TARI (22P0490084)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4	ELVINA COLATE (22P0490019)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5	NISHANKA V. NAIR (22P0490043)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6	SHREYA GAURDAR (22P0490074)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7	SATYA S. KUNKALIAKAR (22P0490068)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8	SOPAL P. NAIR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
9	SURVANI DECAI (22P0490069)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	KAVITA KUMARI V. BIND (22P0490033)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
11	HINDIHI A. BONDUE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
12	DEVAN PAVAN PRASHANT (22P0490018)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
13	ESVITA R. KATKOLKAR (22P0490022)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
14	VINESHA V. SAUNDATLAKAR (22P0490016)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
15	FRIEDA FERNANDES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
16	JESSEN ENE MIRANDA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
17	NIKITA KUMARI (22P0490042)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
18	SHREESHA H. HINDPARTAKAR (22P0490010)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
19	DEEPI N. NAIR (22P0490017)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
20	AKSHAYANA A. VAIGANKAR (22P0490002)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
21	SONALI SUBHASH. GAONDA (22P0490019)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
22	SIDHAKA V. GANAKAR (22P0490076)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
23	SHRUTI. RAMDAS. CHAI (22P0490074)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
24	RAVINA STEPH VAZ (22P0490050)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
25	VAISHNAV S. GAUDE AGADHAKAR (22P0490024)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
26	SEJAL S. PAMIKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
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)

Teacher's Name _____

Total number of lectures delivered by the teacher during the Semester _____

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

ATTENDANCE SHEET

Programme Name : _____
Academic Year _____

Academic Year _____

Semester _____

Semester _____

Total number of lectures delivered by the teacher _____

Total number of lectures delivered by the teacher during the Semester _____

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

गोंय विद्यापीठ

ताळगांव पठार,

गोंय - ४०३ २०६

फोन : +९१-८६६९६०९०४८



(Accredited by NAAC)

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Taleigao Plateau, Goa-403 206

Tel : +91-8669609048

Email : registrar@unigoa.ac.in

Website : www.unigoa.ac.in

SCHOOL OF CHEMICAL SCIENCES

CERTIFICATE

This is to certify that Mr./Ms. MARK RODRIGUES, Roll No. 22P0490039, 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 November 2023 to April 2024 which is over and above the regular postgraduate programme credits.

Date: 09/05/2024

Seal:

(Prof. Vidhyadatta M. S. Verenkar)

Dean

School of Chemical Sciences

Goa University

