

Lecture Plan							
Name of the college: Government College of Arts, Science and Commerce, Sanquelim- Goa							
Name of Faculty: Dr. Sagar Narayan Patil				Subject: Chemistry			
Paper code: CHC-211; : Basic Industrial Chemistry				Program: IC chemistry			
Academic year: June 25 - 2026				Semester: III		Total (15)	
Course Objectives: Understand the working principles and applications of temperature and pressure measuring instruments in industrial settings							
Student Learning Outcome: students will be able to, Understand the working principles and applications of temperature and pressure measuring instruments in industrial settings							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
July	1/7/2025	31/07/2025	05	Temperature and pressure measurement Temperature measuring instruments Principle, construction and working of following measuring instruments:	Concepts and problems, ISA01	Board	3. A textbook of Industrial Chemistry by Pol, Date, Adhav & Shinde, Manali Prakashan, Pune, 2021 4. Industrial Chemistry by Dr. Helen Njeri Njenga, African Virtual University, 2019.
August	01/08/2025	31/08/2025	4	Temperature glass thermometers, bimetallic thermometer, vapor filled Thermometer resistance thermometer radiation pyrometers. Pressure measuring instruments	Concepts and problems ISA II	Board	3. A textbook of Industrial Chemistry by Pol, Date, Adhav & Shinde, Manali Prakashan, Pune, 2021 4. Industrial Chemistry by Dr. Helen Njeri Njenga, African Virtual University, 2019.
September	02/09/2025	30/09/2025	5	Principle, construction and working of Manometers, barometers,	Concepts and problems And solutions , ISA3	Board	

				bourdon pressure gauge:bellow type, diaphragm type pressure gauges, Macleod gauges, Pirani gauges.			
October	01/10/2025	22/10/2025	2	gauges, Macleod gauges, Pirani gauges.	Concepts and problems And solutions , revisions	Board	As above