GOVERNMENT POLYTECHNIC, JAJPUR

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DEPARTMENT OF MATHS AND SCIENCE

LESSON PLAN

Name of the Teaching faculty: Sucheta Dhal, Sasmita Tiadi

Subject: Applyed Chemistry Lab

Periods per week- 2

Semester from Date: 04/02025

To Date: 17/05/2025

Total period - 30.

Sessional- 25 marks.

End sem. Exam- 25 Marks

ar period - 30.		Sessional- 25 marks,	End sem. Exam- 25 Marks	
Week	Class Day	Topic		
lst		Expt 1: Preparation of standard solution of oxalic acid of potassium permanganate solution.		
	1st	Theory, procedure and working.		
		Expt 2: Determination of strength of NaOH Solution.		
	2nd	Theory, procedure, Demonstration and working.		
	3rd	Tabulation, calculation and results.		
		student sessional Assessment.		
		Expt 3: Standardisation of potassium Permanganate solut haematite ore.	ion and determination of percentage	
	4th	Theory, procedure, Demonstration and working.		
	5th	Observation, Tabulation and calculate on and result.		
2nd	6th	student sessional Assessment.		
		Expt 4: Iodometric estimation of Copper in copper pyrite	ore	
	7th	Theory and procedure Standardisation of the solutions.		
	8th	Observations and conclusions for the determination of % o	of Cu.	
	9th	student sessional Assessment.		
		Expt 5: Determination of TAN of given oil		
3rd	10th	Theory, procedure, Demonstration and working.		
	11th	Titration, Tabulation and calculations, Result.		
	12th	student sessional Assessment.		
		Expt 6(A): Estimation of hardness of water using EDTA solu	tion	
4th	13th	Theory, procedure, Demonstration and working.	uon.	
	14th	Observation, Calculation and result.		
	15th	student sessional Assessment.	V	
		Expt 6(B): Determination of alkalenity of a given water samp	Ne using 0.01M Sulphuris soid	
	16th	Theory, procedure, Demonstration and working.	ote using 0.0114 Sulphune acid.	
	17th	Titration, Tabulation, Calculation and result.		
	18th	student sessional Assessment.		
5th		Expt 7: Gravimatric analysis of the moisture and ash conten	ts in a Coal sample	
	19th	Theory, procedure, Demonstration and working.	ts iii a Coat sample.	
	20th	Observations, calculation and conclusion.		
6th	21th	student sessional Assessment.		
		Expt 8: Determination of conductivity of given water sample.		
	22th	Theory, procedure, Demonstration and working.		
	23th	Observations, Reading Conclusion.		
	24th	student sessional Assessment.		
714		Expt 13: Verification of Faraday's 1st law. of electrolysis of co	oppor sulphoto voic z Occala de	
	25th	Theory, procedure, Demonstration and working.	opper surpriate using Cu electrode.	
	26th	Observations, calculation and conclusion.		

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	27th	student sessional Assessment.	
,		Expt 15: Determination of the effect of two dissimilar metals immersed in solution.	
	28th	Theory, procedure, Demonstration and working.	
8th	29th	Observations, calculation and conclusion.	
Poforone	30th	student sessional Assessment.	

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Reference Books:-

Applied Chemistry by Dr. Anju Rawlley (Download from https://ekumbh.aicteindia.org/dbook.php) Text Book of Chemistry for Class XI & XII (Part-1, Part-II); N.C.E.R.T., Delhi, 2017-18.

Dr. G. H. Hugar and Prof A. N. Pathak, Applied Chemistry Laboratory Practices, Vol, I and Vol. II, NITTTR, Chandigarh, Publications, 2013-14

Jain & Jain Engineering Chemistry, Dhanpat Rai and Sons; New Delhi, 2015.