



बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsā Mūṇḍā Drāyabala Yūnīvārsīṭī

राजपिपला, जि० नर्मदा Rajpipla, Dist. Narmda

Established by Tribal Development Department, Govt. of Gujarat

School of Science

B.Sc. (Chemistry) Programme

Subject Code & Name: - BS06MJCHE3 & Organic & Physical chemistry Practical

Teaching and Evaluation Scheme:

Teaching Scheme				Examination Scheme			
Credits				Component Weightage			
				CCE		SEE	
L	T	P	Total	TH	PWE	TH	PWE
-	-	4	4	-	50	-	50

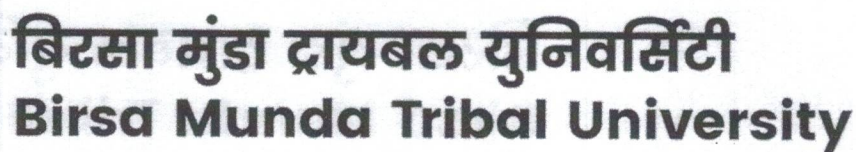
Programme Name	B.Sc.
Semester	VI
Course Code	BS06MJCHE3
Course Title	Organic & Physical chemistry Practical
Course Content Type (Th./Pr.)	Practicals
Course Credit	4
Sessions+ Lab. Per Week	4
Total Teaching/Lab. Hours	60 Hours
* 2 Laboratory = 1 Session	

Learning Objectives

1. Understand fundamental organic reactions such as bromination, nitration, reduction, oxidation, and condensation through hands-on synthesis.
2. Perform laboratory synthesis of organic compounds using appropriate techniques like heating, refluxing, crystallization, and filtration.
3. Understand the principles of pH measurement and potentiometry for analyzing acid-base systems.
4. Determine the molarity of strong acids by titrating them against a standard sodium hydroxide solution using pH-metric and potentiometric methods.
5. Apply concepts of acid-base equilibria and buffer regions in real experimental conditions.

Prerequisites (if any)





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School of Science B.Sc. (Chemistry) Programme

Required Software(s) (if any)	
Practical(s) (if any)	

L:: Lecture, **T::** Tutorial, **P::** Practical

CCE:: Continuous and Comprehensive Evaluation

(CCE Theory includes Mid Semester Examination, Assignment, MCQ quizzes, Seminar, Reflective notes, class participation, case analysis and presentation, slip tests (announced/surprised), attendance etc. or any combination of these)

PWE:: Practical Work Examination

(PWE includes Laboratory practical work, project work, viva simulation exercise work etc.)

SEE:: Semester End Evaluation