Govt. T. R. S. (Autonomous) College Rewa (M.P.)

(Affiliated to A.P.S. University Rewa)

Department of Chemistry

Syllabus for B.Sc. (Hons.) Chemistry on CBCS

Session 2023-24

			Part A - Intro	duction			
Program: UG Class: B.Sc			c. Chemistry	Semester: IV	Session: 2023-24		
(Dip	loma)						
			Subject: Chemistry	(Honours)	•		
1	1 Course code		CHST-04				
2	Course title		ENVIRONMENTAL IMPACT ANALYSIS				
3	Course typ	e	Skill Enhancement Course				
4	Pre-requisi	ite (if any)	Open for All				
5	Course Ob	jective	The objective of this course to make students aware about the roll of chemistry in daily life.				
6	Course Lea	arning	By the end of this course, the students will be able to:				
	Outcomes	(CLO)	 Learn about the adulteration Prepare new innovative formulations 				
7	Credit Val	ue	4				
8	8 Total Marks		Max. Marks (40+60): CCE+ESE Min. Passing Mar			arks:	
			Part B – Content of		,		
	No. of Lectur P: 30-0-00	res-Tutorials-	Practical (2 hours per wee	k):			
Unit	t	Торіс					
1		Origin and Development					
	Purpose a	Purpose and aim, core values and principles, History of EIA development, Environmental					
	Management Plan, Environmental Impact Statement, Scope of EIA in Project plann				oject planning		
	and Implementation.						
2	EIA Process					8	
	Compone	Components of EIA, EIA Methodology- Screening, Scoping, Baseline data, Impact					
	Identification, Prediction, Evaluation and Mitigation, Appendices and Forms						
	Applicati	Application, Techniques of Assessment-Cost-benefit Analysis, Matrices, Checklist,					
	11	Overlays, Impact on Environmental component: air, noise, water, land, biological, social					
	•	and environmental factors. EIA Document.					
		omnemai racti	ors. En i Document.				

3	Main participants in EIA Process	7
	Role of Project proponent, environmental consultant, PCBs, PCCs, public and IAA. Public	
	participation.	
4	Introduction to Cement and cement manufacturing process, Types of Cement.	7
	Treatment of water, identification BOD, COD, DO. Determination pH of water sample.	

Part C – Learning Resources

Text Books, Reference Books, Other resources

Suggested Reading:

- 1. Dubey, R.C. (2005). A Text book of Biotechnology S.Chand & Co, New Delhi.
- 2. John Jothi Prakash, E. (2004). Outlines of Plant Biotechnology. Emkay Publication, New Delhi.
- 3. Kumaresan, V.(2005). Biotechnology, Saras Publications, New Delhi.
- 4. NIIR Board. (2012). The complete Technology Book on Biofertilizer and organic farming. 2nd Edition. NIIR Project Consultancy Services.
- 5. Sathe, T.V. (2004) Vermiculture and Organic Farming. Daya publishers.
- 6. Subba Rao N.S. (2017). Biofertilizers in Agriculture and Forestry. Fourth Edition. Medtech.
- 7. Vayas, S. C, Vayas, S. and Modi, H.A. (1998). Bio-fertilizers and organic Farming Akta Prakashan, Nadiad.

Suggested equivalent online:

Part D – Assessment & Evaluation

Suggested Continuous Evaluation Method

Any remark / suggestion:

This course can be opted as an elective by the students of the following subjects:

Open for All

Continuous & Comprehensive Evaluation shall be based on allotted Assignment and Class Test

Keywords:

Silica, Alumina, Iron Oxide, Shale, Portland cement, gypsum.

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Department of Chemistry

Syllabus for B.Sc. Chemistry

on CBCS

Session 2023-24

			Part A - Intro	duction					
Program: UG Class: B.Sc.			Chemistry	Semester: IV	Session: 2023	3-24			
(Diploma)									
Subject: Chemistry (Honours)									
1	Course co	de	CHSP-04						
2	Course tit	le	ENVIRONMENTAL IMPACT ANALYSIS(Practical)						
3	Course ty	pe	Skill Enhancement Course						
4	Pre-requis	site (if any)	Open for All						
5	Course Ol	bjective	The objective of this course to make students aware about the roll of chemistry in daily life.						
6	Course Le	O	 By the end of this course, the students will be able to: Learn about the adulteration Prepare new innovative formulations 						
7	Credit Va	lue	2						
8	Total Mar	·ks	Max. Marks (60+40): Min. Passing Marks:						
			Part B – Content of	the course					
	No. of Lectu P: 00-0-15	res-Tutorials-P	ractical (4 hours per weel	x):					
Unit		Topic			No. of Lectures				
1	1. Dete	rmination of har	dness of water.			15			
	2. Dete	2. Determination of chloride in water sample.							
	3. Dete	3. Determination of moisture in cement sample.							
Part	C – Learning	Resources							
Text	Books, Refer	ence Books, Otl	her resources						
Sugge 1.		S.; Yamamoto, I.	; Ishaaya, I.; Perry, R.Y.(1 rlag Berlin Heidelberg.	998),Insecticides in					

Kuhr, R.J.; Derough, H.W.(1976), Carbamate Insecticides: Chemistry, Biochemistry and

2.

Toxicology, CRC Press, USA.

Suggested equivalent online:

Part D – Assessment & Evaluation

Suggested Continuous Evaluation Method

Any remark / suggestion:

This course can be opted as an elective by the students of the following subjects:

Continuous & Comprehensive Evaluation shall be based on allotted Assignment and Class Test

Keywords:

Chlorine, chloride, BIS.

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