

RGPV (Diploma Wing ) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code	LO Code	Format No. 4
					C	0	2	3	0	2	1	1	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY - I												
<b>CO Description</b>	Use sulfur and sulphuric acid as raw material for appropriate process												
<b>LO Description</b>	Concept of unit operations and unit processes												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks						
1	Introduction to unit operations and unit processes, difference between unit operations and unit processes, schematic representation of different unit operations and unit processes	Interactive classroom teaching, demonstration, quiz, assignments, tutorial.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/quiz/tutorial to make students practice their knowledge.	3	1	Handouts, chalk board, PPT, text book.							
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required			External / Internal						
1	Pen paper test/theory exam	Student will be asked to explain unit operations and unit processes	10	(Test paper + Rating scale) and (Question paper +Rating scale)			External						
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
Nil													

<b>RGPV (Diploma Wing ) Bhopal</b>		<b>SCHEME FOR LEARNING OUTCOME</b>			<b>Branch Code</b>			<b>Course Code</b>			<b>CO Code</b>	<b>LO Code</b>	Format No. 4
					<i>C</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>1</i>	<i>2</i>	
<b>COURSE NAME</b>		CHEMICAL TECHNOLOGY – I											
<b>CO Description</b>		Use sulfur and sulphuric acid as raw material for appropriate process											
<b>LO Description</b>		To Draw process flow diagram for mining of sulfur											
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching –Learning Method</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>			<b>Remarks</b>				
1	Sulfur industry, Physical and chemical properties, Process description and flow chart, Frasch process, Oxidation-reduction of H <sub>2</sub> S, Iron pyrites (Finish Process), Major engineering problems, Uses and economics	Interactive classroom teaching, demonstration, quiz, assignments, tutorial.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	4	2	Handouts, chalk board, PPT, text book.							
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>		<b>Maximum Marks</b>	<b>Resources Required</b>				<b>External / Internal</b>				
1	Pen paper test/theory exam	Student will be asked to explain the methods adopted to mine sulfur		10	(Test paper + Rating scale) and (Question paper +Rating scale)				Internal				
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
Nil													

RGPV (Diploma Wing ) Bhopal		SCHEME FOR LEARNING OUTCOME		Branch Code			Course Code			CO Code	LO Code	Format No.
				C	0	2	3	0	2	1	3	4
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY - I											
<b>CO Description</b>	Use sulfur and sulphuric acid as raw material for appropriate process											
<b>LO Description</b>	Select appropriate processes for the production of sulphuric acid.											
SCHEME OF STUDY												
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Sulphuric acid, Physical and chemical properties, Process description and flow chart of Contact process, Major engineering problems, Uses and economics, other obsolete processes and reason for their absorption	Interactive classroom teaching, demonstration, quiz, assignments, tutorial Lab assignments, presentation, lab demonstration, hands on practice.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge. Teacher will demonstrate the procedure of lab experiments.	05	02	Handouts, chalk board, charts, , lab.						
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required			External / Internal					
1	Pen Paper test/practical Exam	Student will be asked to explain production and application of sulphuric acid	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals			Internal (Practical )					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Nil												

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					<i>C</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>1</i>	<i>4</i>	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY -												
<b>CO Description</b>	Use sulfur and sulphuric acid as raw material for appropriate process												
<b>LO Description</b>	Identify the raw materials for manufacturing of glass												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching –Learning Method</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>			<b>Remarks</b>				
1	Composition, Raw material, Methods of manufacturing, Manufacturing of special glasses-fused silica & high silica glass, building construction glass	Interactive classroom teaching, demonstration, quiz, assignments, tutorial. lab demonstration	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	04	01	Handouts, chalk board, PPT, text book,							
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>	<b>Maximum Marks</b>	<b>Resources Required</b>			<b>External / Internal</b>						
1	Pen paper test/theory exam	Student will be asked to describe different types of glass	10	(Test paper + Rating scale) and (Question paper +Rating scale)			Internal						
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
Nil													

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					C	0	2	3	0	2	2	1	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY - I												
<b>CO Description</b>	Describe properties and manufacturing processes of chloro alkali chemicals												
<b>LO Description</b>	Identify soda ash based on chemical and physical properties.												
<b>SCHEME OF STUDY</b>													
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks						
1	Soda ash (Sodium carbonate), Physical and chemical properties , Method of production and flow sheet, Solvay process, Dual process, Major engineering problems, Uses and economics.	Interactive classroom teaching, demonstration, quiz, assignments, tutorial.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge	08	02	Handouts, chalk board, PPT, text book, lab.							
<b>SCHEME OF ASSESSMENT</b>													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required			External / Internal						
1	Pen Paper test/Theory Exam/practical Exam	Student will be asked to describe different processes for soda ash manufacturing and their application.	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals			External						
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
Nil													

RGPV (Diploma Wing ) Bhopal		SCHEME FOR LEARNING OUTCOME		Branch Code			Course Code			CO Code	LO Code	Format No. 4
				C	0	2	3	0	2	2	2	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY - I											
<b>CO Description</b>	Describe properties and manufacturing processes of chloro alkali chemicals.											
<b>LO Description</b>	Compare processes for the production of caustic soda.											
SCHEME OF STUDY												
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	. Caustic soda-chlorine process, Physical and chemical properties , Method of production and flow chart, Electrolytic process, Membrane cell process, Major engineering problems , Uses and economics, Hydrochloric acid ,Physical and chemical properties, Method of, production of hydrochloride, Major engineering problems, Uses and economics	Interactive classroom teaching, demonstration, quiz, assignments, tutorial. lab demonstration	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge	07	2	Handouts, chalk board, charts, , lab.						
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required			External / Internal					
1	Pen Paper test/Theory Exam/practical Exam	Student will be asked to describe different processes for soda ash manufacturing and their application	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals			External					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Nil												

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					C	0	2	3	0	2	2	3	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY – I												
<b>CO Description</b>	Describe properties and manufacturing processes of chloro alkali chemicals.												
<b>LO Description</b>	Use bleaching powder judiciously as per need.												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks						
1	Bleaching powder, Introduction, Physical and chemical properties, Method of production , Major engineering problems, Uses and economics	Interactive classroom teaching, demonstration, quiz, assignments, tutorial. lab demonstration	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge Teacher will conduct lab assignments to make students practice their knowledge.	05	01	Handouts, chalk board, PPT, text book, charts.							
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal								
1	Pen Paper test/Theory Exam/practical Exam	Student will be asked to explain bleaching powder and its uses.	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals	External								
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
Nil													

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					<i>C</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>1</i>	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY - I.												
<b>CO Description</b>	Identify properties of industrial gases and manufacture industrial gases on small scale												
<b>LO Description</b>	Identify gas handling equipments based on properties of gases.												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching – Learning Method</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>			<b>Remarks</b>				
1	Industrial gases : Brief knowledge of gases viz. hydrogen, oxygen, water gas, producer gas, carbureted water gas , nitrogen, acetylene gas, Physical and chemical properties, Method of production , Major engineering problems, Uses and economics	Interactive classroom teaching, demonstration, quiz, assignments, tutorial. lab demonstration	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge. Teacher will demonstrate the procedure of lab experiments.	08	03	Handouts, chalk board, PPT, text book, charts.lab							
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>	<b>Maximum Marks</b>	<b>Resources Required</b>			<b>External / Internal</b>						
1	Pen paper test/theory exam	Student will be asked describe different industrial gases with their applications.	10	(Test paper + Rating scale) and (Question paper +Rating scale)			Internal						
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
Nil													



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				<i>C</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>2</i>	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY - I											
<b>CO Description</b>	Identify properties of industrial gases and manufacture industrial gases on small scale											
<b>LO Description</b>	Select equipment for production of ammonia/urea											
<b>SCHEME OF STUDY</b>												
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching – Learning Method</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>					
1	Nitrogen Industries: Ammonia , Physical and chemical properties , Method of production, Major engineering problems, Uses and economics, Nitric Acid, Physical and chemical properties, Method of production, Major engineering problem, Uses and economics, Urea: Physical and chemical properties, Method of production. Major engineering problem, Uses and economics	Interactive classroom teaching, demonstration, quiz, assignments, tutorial. lab demonstration	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge. Teacher will demonstrate the procedure of lab experiments.	08	03	Handouts, chalk board, PPT, text book, charts, lab.						
<b>SCHEME OF ASSESSMENT</b>												
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>	<b>Maximum Marks</b>	<b>Resources Required</b>				<b>External / Internal</b>				
1	Pen Paper test/Theory Exam/practical Exam	Student will be asked to explain production processes and applications of nitrogen products.	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals				External Theory &Internal practical				
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>												
Nil												

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					<i>C</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>4</i>	<i>1</i>	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY – I												
<b>CO Description</b>	Identify engineering problems in production processes of Phosphorous Industries												
<b>LO Description</b>	Identify equipments for the production of Phosphoric acid												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching –Learning Method</b>	<b>Description of T-L Process</b>	<b>Teac h Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>			<b>Remarks</b>				
1	Phosphorus, phosphoric acid, Physical and chemical properties, Process description and flow chart, Major engineering problem , Uses and economics	Interactive classroom teaching, demonstration, quiz, assignments, tutorial. lab demonstration	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge	07	03	Handouts, chalk board, PPT, text book, charts, lab.							
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>	<b>Maximum Marks</b>	<b>Resources Required</b>			<b>External / Internal</b>						
1	Pen Paper test/Theory Exam	Student will be asked to describe production method of phosphorous and phosphoric acid and their testing	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals			Internal						
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
Nil													

RGPV (Diploma Wing ) Bhopal		SCHEME FOR LEARNING OUTCOME		Branch Code			Course Code			CO Code	LO Code	Format No. 4
				C	0	2	3	0	2	4	2	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY – I											
<b>CO Description</b>	Identify engineering problems in production processes of Phosphorous Industries											
<b>LO Description</b>	Identify major Engineering problems associated with the production of phosphorus based fertilizers											
SCHEME OF STUDY												
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Super phosphate and triple super phosphate , Physical and chemical properties, Process description and flow chart, Major engineering problem, Uses and economics	Interactive classroom teaching, demonstration, quiz, assignments, tutorial. lab demonstration	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge	08	02	Handouts, chalk board, PPT, text book, charts, lab.						
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required			External / Internal					
1	Pen Paper test/Theory Exam/practical Exam	Student will be asked to describe large scale production of phosphorus based fertilizers with their characteristics.	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals			External					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
nil												

RGPV (Diploma Wing ) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code	LO Code	Format No. 4
					C	0	2	3	0	2	5	1	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY - I												
<b>CO Description</b>	manufacture surface coating and finishing products.												
<b>LO Description</b>	Explain different type of paint and varnishes on the basis of chemical and physical properties												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks						
1	Paints and Varnishes, Introduction, Difference between paints, varnishes and lacquers, Types of paints, varnishes and lacquers, Manufacture of paints, varnishes and lacquers	Interactive classroom teaching, demonstration, quiz, assignments, tutorial.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	05	01	Handouts, chalk board, PPT, text book, charts, lab.							
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal								
1	Pen paper test/theory exam	Student will be asked to describe various paint, varnishes and laquars	10	(Test paper + Rating scale) and (Question paper +Rating scale)	External								
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
Nil													

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					M	0	2	3	0	2	5	2	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY – I												
<b>CO Description</b>	manufacture surface coating and finishing products..												
<b>LO Description</b>	Use different pigments for paint and varnish preparation.												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks						
1	Uses of White lead, Titanium oxide, Zinc oxide, lithophone, lead chromate, copper sulfate and iron oxide in paint and varnish industries.	Interactive classroom teaching, demonstration, quiz, assignments, tutorial.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge	05	02	Handouts, chalk board PPT, lab.							
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required				External / Internal					
1	Pen paper test/ theory exam	Student will be asked to describe production process for the production of paint and varnishes.	10	(Test paper + Rating scale) and (Question paper +Rating scale)				External					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													

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					C	0	2	3	0	2	5	3	
<b>COURSE NAME</b>	CHEMICAL TECHNOLOGY – I												
<b>CO Description</b>	manufacture surface coating and finishing products.												
<b>LO Description</b>	manufacture cement as per end uses												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks						
1	physical and chemical properties of clinker,types of cement ,process description and flow chart,wet and dry process,portland cement production,major engineering problems , uses and economics,different water proofing agents and there functioning, and prodution methods	Interactive classroom teaching, demonstration, quiz, assignments, tutorial.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge. Teacher will conduct lab assignments to make students practice their knowledge	08	02	Handouts, chalk board, charts, video film, virtual lab.							
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal								
1	Pen Paper test/Theory Exam/practical Exam	Student will be asked to describe manufacturing and properties of various grade cements with their testing.	10	(Test paper + Rating scale)/ (Question paper +Rating scale) and rating scale for practicals	External								
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
Nli													

### List of Practicals

S.No.	NAME OF EXPERIMENT	CO	LO
1	Determine Purity of given sample of $\text{H}_2\text{SO}_4$	1	2
2	Determine Purity of given sample of Sodium Carbonate.	2	1
3	Prepare caustic soda by chemical method	2	2
4	To determine the available chlorine in the given sample of bleaching powder by the Iodometric method	2	3
5	Determine nitrogen content in fertilizer by Kjeldahl method.	3	2
6	Determine purity of $\text{HNO}_3$	3	2
7	Prepare urea formaldehyde resin	3	2
8	Determine the percentage of phosphorous in calcium phosphate sample	4	2
9	Determine the percentage of phosphorous in triple super phosphate sample.	4	2
10	Determine the percentage of phosphorous in single superphosphate sample	4	2
11	Measure viscosity of paint/varnish with the help of dip Cup and flow cup viscometer	5	1
12	Measure viscosity of paint/varnish with the help of bubble and rotational viscometer	5	1