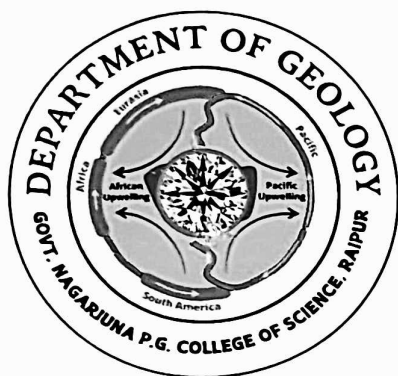


# **Govt. Nagarjuna P.G. College of Science Raipur, C.G.**

## **CURRICULUM & SYLLABI (Based on CBCS & LOCF)**



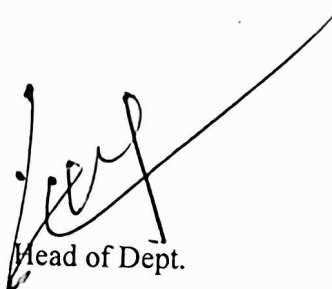
## **Bachelor of Science (Geology) (NEP - 2020) (I & II Sem) Session : 2025-26**

<b>Approved by:</b>	<b>Board of Studies</b>	<b>Academic Council</b>
<b>Date:</b>	07-07-2025	

**Department of Geology  
Govt. Nagarjuna P.G. College of Science  
Raipur, C.G.**

**Scheme of Papers in B.Sc. I / II Semester Geology 2025-26 as per UGC (NEP 2020)**


Semester	DSC	SEC	VAC
<b>B.Sc. I Sem</b>	Fundamentals of Geology		Disaster Management
<b>B.Sc. II Sem</b>	Essentials of Geology	Rainwater Harvesting	

  
Head of Dept.

Subject Expert

  
07/07/25  
Subject Expert

  
07.07.25  
Subject Expert

  
Representative from Industry

  
07/07/25  
Student's Representative

Special Invited

**FOUR YEAR UNDERGRADUATE PROGRAM**  
**DEPARTMENT OF GEOLOGY**  
**COURSE CURRICULUM**

PART-A: Introduction			
Program: Bachelor in Science (Certificate/Diploma/Degree)		Semester: I	Session: 2025-2026
1	Course Code	DSC-GESC-01T	
2	Course Title	Fundamentals of Geology	
3	Course Type	Discipline Specific Course (Theory)	
4	Pre-requisite(if any)	As per Government norms	
5	Course Learning Outcomes (CLO)	After successfully completing this course, the students will be able to: 1. Understand basics of Geology, Solar system and internal structure of the Earth, origin and age of the Earth 2. Understand the theories of continental drift and plate tectonics 3. Understand causes and effects of earthquakes and explain weathering and its products 4. Describe concepts of geomorphology and landforms developed by various geological agencies 5. Explain about the physiographic and tectonic divisions of India	
6	Credit Value	3 Credits	(Credit=15hours-learning&observation)
7	Total Marks	Max.Marks:100(70+30)	Min. Passing Marks : 40

**PART-B: CONTENT OF THE COURSE**

**Total No. of Teaching-learning Periods (01hour per period)-45 Periods(45 Hours)**

Unit	Topics (Course Contents)	No. of Period
I	General Geology& Geodynamics: Introduction to Geology; Geology and its relation with other branches of science; Earth and solar system; Theories regarding origin and age of the Earth; Shape and structure of the Earth; Introduction to Continental Drift, Sea-floor spreading & Plate Tectonics. Introduction to Geomorphology: Definition of Geomorphology; Erosional & Depositional features of various Geomorphological Agents (River, Wind and Glacial).	15
II	Structural Geology: Its definition; Attitude of Beds (Dip and Strike). Introduction to Fold, Fault and Joints. Economic Geology: Its definition, Introduction to important Indian mineral deposits (metallic and non-metallic). Introduction to important ore forming processes (magmatic, hydrothermal, supergene sulphide enrichment, mechanical concentration)	15
III	Stratigraphy: Its definition, Principles of Stratigraphy, Types of Correlation, Geological Time Scale. Palaeontology: Its definition, Fossil, Mode of Preservation, Uses of Fossil, Index Fossil	15
IV	Applied Geology: Definition and Scope of Hydrogeology. Definition and Scope of Engineering Geology. Definition and Scope of Mining Geology. Definition and Scope of Environmental Geology, Definition and Scope of Mineral Exploration	15

Head of Dept.

Subject Expert

Subject Expert

Subject Expert

Representative from Industry

Student's Representative

Special Invited

### Part-C

#### Learning Resource: Text Books, Reference Books, Others

##### Text Books Recommended-

1. भौतिक-भूविज्ञान- डॉ. मुकुल घोष
2. भौतिक-भूविज्ञान- डॉ. जे.पी. तिवारी एव बी.सिंह .के .
3. भूआकृति विज्ञान- डॉ . सविन्द्र सिंह
4. भूविज्ञान एक परिचय .विद्यासागर दुबे .डॉ -
5. भूगतिकी एि भूआकृति विज्ञान- डॉ. दीपकराज तिवारी
6. Holmes,A. DorisLHolmesEdit., Principles of Physical Geology, Van Nostrand Reinhold, 1978.
7. Mahapatra,G.B., Textbook of Physical Geology, CBS, India, 2018
8. Mathur,S.M., Physical Geology of India, NBT India,1991
9. Miller, WilliamJ., Physical Geology: An Introduction. D Van Nostrand Co., 5th Ed., 1949
10. Mukerjee,P.K., Text Book of Geology. World Press Private Ltd, 2013.
11. Thornbury,W.D., Principles of Geomorphology. New Age International, 2<sup>nd</sup> Edition, 196 12.  
Principles of Geomorphology: A.F. Ahmad

##### E-resources

1. <https://opentextbc.ca/physicalgeology2ed/front-matte/rdownload-a-pdf/>
2. <https://archive.org/details/in.ernet.dli.2015.233340/page/n15/mode/2up>
3. <https://egyankosh.ac.in/>
4. <https://sites.google.com/ignou.ac.in/bscgeology>
5. SWAYAM-<https://swayam.gov.in/explorer?searchtext>
6. Nationaldigitallibrary<https://ndl.iitkgp.ac.in>
7. e-PGpathshala (MHRD)portal, <https://egpg.inflibnet.ac.in>

#### PART-D: Assessment and Evaluation- Theory

##### Suggested Continuous Evaluation Methods:

Maximum Marks:	100Marks
Continuous Internal Assessment(CIA):	30Marks
End Semester Exam (ESE):	70 Marks

<b>Continuous Internal Assessment (CIA):</b> (By Course Teacher)	Internal Test/Quiz-(2):20+20 Assignment/Seminar -10 Total Marks -30	Better marks out of the two Test/ Quiz+ obtained marks in Assignment shall be considered against 30 Marks
<b>End Semester Exam (ESE):</b>	Two section- A&B SectionA:Q1.Objective-10x1=10Mark; Q2.Short answertype-5x4 =20Marks SectionB: Descriptive answer type questions, 1 out of 2 from each unit-4x10=40 Marks	

Head of Dept.

Subject Expert

Subject Expert

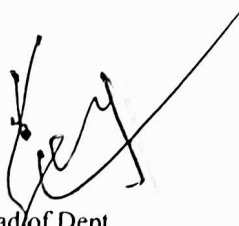
Subject Expert

Representative from Industry

Student's Representative


Special Invited


<b>PART-A: Introduction</b>			
<b>Program: Bachelor in Science (Certificate/Diploma/Degree)</b>		<b>Semester: I</b>	
		<b>Session: 2025-2026</b>	
1	<b>Course Code</b>	<b>DSC-GESC-01P</b>	
2	<b>Course Title</b>	<b>Lab Course – 01 (Fundamentals of Geology)</b>	
3	<b>Course Type</b>	<b>Discipline Specific Course (Practical)</b>	
4	<b>Pre-requisite(if any)</b>	<b>As per Government norms</b>	
5	<b>Course Learning Outcomes(CLO)</b>	After successfully completing this course, the students will be able to: 1) Identify and describe various landforms in geomorphologic models. 2) Interpret topographical maps	
6	<b>Credit Value</b>	1 Credit	(Credit=30 hours Laboratory or Field learning/ Training)
7	<b>Total Marks</b>	Max. Marks:50	Min Passing Marks: 20
<b>Part B: Content of the Course</b>			
<b>Total No. of learning-Training/performance Periods: 30Periods (30 Hours)</b>			
<b>Module</b>	<b>Topics(Course contents)</b>		<b>No. of Period</b>
<b>Lab./Field Training/ Experiment Contents of Course,</b>	1. Physical properties of minerals. 2. Introduction to Clinometer Compass and its use. 3. Study of Geomorphological Models.		30

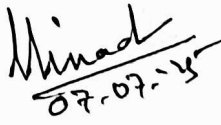
  
Head of Dept.

Subject Expert

  
Representative from Industry

  
Subject Expert

  
Student's Representative

  
Subject Expert

Special Invited

### Part-C

#### Learning Resource: Text Books, Reference Books, Others

##### Text Books Recommended-

1. भौतिक-भूविज्ञान- डॉ. मुकुल घोष
2. भौतिक-भूविज्ञान- डॉ. जेपी .. तिवारी एव बी.सिंह .के .
3. भूआकृति विज्ञान- डॉसविन्द्रसिंह .
4. भूविज्ञान एक परिचय .विद्यासागर दुबे .डॉ -
5. भूगतिकी एि भूआकृति विज्ञान- डॉ. दीपकराज तिवारी

1. Holmes,A.Doris L Holmes Edit.,Principles of Physical Geology, Van Nostrand Reinhold, 1978.
2. Mahapatra,G.B.,Textbook of Physical Geology,CBS,India,2018
3. Mathur, S.M., Physical Geology of India, NBT India,19919.Miller,WilliamJ., Physical Geology: An Introduction. D Van Nostrand Co., 5th Ed., 1949
4. Mukerjee, P.K., Text Book of Geology. World Press Private Ltd, 2013.
5. Thornbury,W.D.,Principles of Geomorphology.New Age International,2<sup>nd</sup> Edition, 196 12. Principles of Geomorphology: A.F. Ahmad

##### E-resources

1. <https://opentextbc.ca/physicalgeology2ed/front-matte/rdownload-a-pdf/>
2. <https://archive.org/details/in.ernet.dli.2015.233340/page/n15/mode/2up>
3. <https://egyankosh.ac.in/>
4. <https://sites.google.com/ignou.ac.in/bscgeology>
5. SWAYAM-<https://swayam.gov.in/explorer?searchtext>
6. Nationaldigitallibrary<https://ndl.iitkgp.ac.in>
7. e-PG pathshala (MHRD)portal, <https://egpg.inflibnet.ac.in>

#### PART-D: Assessment and Evaluation- Practical

##### Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA):15Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar+Attendance-05 Total Marks -15	Better marks out of the two Test/ Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory/Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work -20 Marks B. Spotting based on tools & technology (written)-10Marks C. Viva-voce (based on principle/ technology) -05Marks	Managed by Course teacher as Per lab. status

Head of Dept.

Subject Expert

Subject Expert

Subject Expert

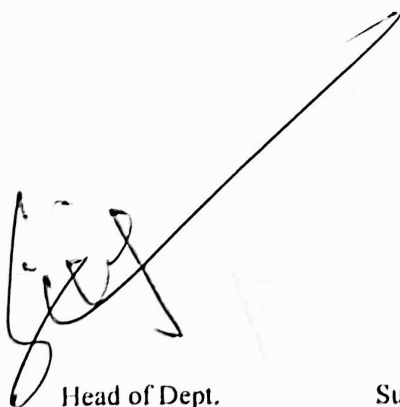
Representative from Industry

Student's Representative

Special Invited

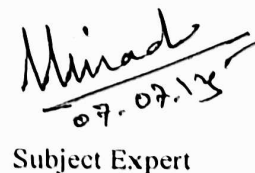
**FOUR YEAR UNDERGRADUATE PROGRAM  
DEPARTMENT OF GEOLOGY  
COURSE CURRICULUM**

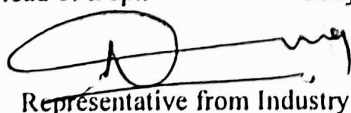
PART-A: Introduction			
Program: Bachelor in Science (Certificate/Diploma/Degree/ Honors)		Semester: I	Session:2025-26
1	Course Code	GEVAC -01	
2	Course Title	DISASTER MANAGEMENT	
3	Course Type	Value Addition Course	
4	Pre-requisite(if any)	As per Government norms	
5	Course Learning Outcomes (CLO)	<p>On completion of Course, the students should be able to-</p> <ol style="list-style-type: none"> <li>1.) Appropriate actions at all points in the cycle lead to greater preparedness, better warnings, reduced vulnerability or the prevention of disasters during the next iteration of the cycle.</li> <li>2.) The complete disaster management cycle includes the shaping of public policies and plans that either modify the causes of disasters or mitigate their effects on people, property, and infrastructure.</li> <li>3.) Capacity to obtain, analyze, and communicate information on risks, relief needs and lessons learned from earlier disasters in order to formulate strategies for mitigation in future scenarios with the ability to clearly present and discuss their conclusions and the knowledge and arguments behind them</li> </ol>	
6	Credit Value	2 Credits	(Credit=30 hours-learning & observation)
7	Total Marks	Max. Marks: 50	Min Passing Marks : 20
PART- B: CONTENT OF THE COURSE			
Total No. of Teaching-learning Periods (01 hour per period)- 30 Periods (30 Hours)			
Unit	Topics (Course Contents)		No. of Period
I	1) Meaning & Definition of Natural Disaster 2) Earthquake 3) Active fault 4) Volcanoes 5) Landslide - Types, avalanches		15
II	1) Heatwave, Wild fires 2) Cloud Burst, Hailstorm 3) Drought and Famine 4) Tsunami, Hurricane, Cyclone 5) Flood , Glacial Outburst Flood, Flash flood		15

  
Head of Dept.

Subject Expert

  
Subject Expert

  
Subject Expert

  
Representative from Industry

  
Student's Representative

Special Invited

**Part - C**

**Learning Resource: Text Books, Reference Books, Others**

**Text Books Recommended-**

1. Natural Hazards and Disaster Management: Vulnerability and Mitigation RSS h Rawat Publications 2006
2. Natural Disaster Management Soumitra Roy 2006 Ablijeet Publications
3. Disaster Management Challenges and strategies of India , Dr. M. C. Shibin Tad Notion Press 2021

**Online Resources**

<https://guides.loc.gov/natural-disasters/internet-resources>

**PART -D: Assessment and Evaluation -Theory**

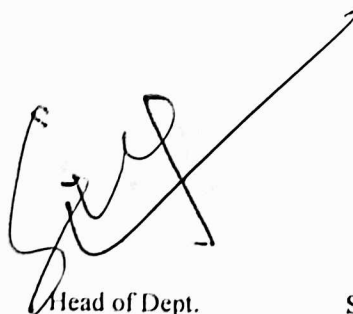
**Suggested Continuous Evaluation Methods:**

Maximum Marks: 50 Marks

Continuous Internal Assessment(CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

<b>Continuous Internal Assessment (CIA): (By Course Teacher)</b>	Internal Test / Quiz-(2): 5+5 Assignment / Seminar - 5 Total Marks - 30	Better marks out of the two Test / Quiz obtained marks in Assignment shall be considered against 15 Marks
<b>End Semester Exam (ESE):</b>	Two section — A & B Section A: Q1. Objective — 10 x1= 10 Mark; Q2. Short answer type- 5x2=10Marks Section B: Descriptive answer type qts., 5out of 3 from each unit-3x5=15 Marks	

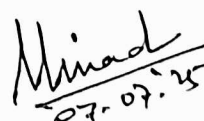


Head of Dept.

Subject Expert



Subject Expert



Subject Expert



Representative from Industry



Student's Representative

Special Invited



**FOUR YEAR UNDERGRADUATE PROGRAM**  
**DEPARTMENT OF GEOLOGY**  
**COURSE CURRICULUM**

PART-A:Introduction				
Program: Bachelor in Science (Certificate/Diploma/Degree)		Semester: II		Session:2025-2026
1	Course Code	DSC-GESC-02T		
2	Course Title	Essentials of Geology		
3	Course Type	Discipline Specific Course (Theory)		
4	Pre-requisite(if any)	As per Government norms		
5	Course Learning Outcomes(CLO)	After successfully completing this course, the students will be able to: 1. Explain about the basics of crystallography, various crystal forms, crystallographic axes and symmetry elements. 2. Describe various forms of normal classes of various crystal systems. Classify the minerals in various silicate groups and explain their varieties. 3. Describe the physical properties of various minerals. 4. Describe the optical characteristics of various minerals.		
6	Credit Value	3 Credits	(Credit=15hours-learning&observation)	
7	Total Marks	Max.Marks:100(70+30)		Min Passing Marks : 40
PART-B: CONTENT OF THE COURSE				
Total No. of Teaching-learning Periods(01 hour per period)-45 Periods(45 Hours)				
Unit	Topics(Course Contents)			No. of Period
I	Mineralogy: Definition of Mineral, Mineral Classification (Ore forming, rock forming, metallic & Non-metallic etc.). Physical, chemical and optical properties of minerals.			15
II	Crystallography: Definition of Crystal, Crystal Lattice, Classification of Crystal System. Silicate Structure and its types along with mineral examples.			15
III	Petrology: Rock Cycle. Types and Mode of formation of different Rocks (Igneous, Metamorphic and Sedimentary) and their properties. Texture and Structure of Igneous, Metamorphic and Sedimentary rocks.			15
IV	Tabular Classification Igneous Rocks. Classification of Sedimentary Rocks: Clastic, non-Clastic and Biogenic. Types and Agents of Metamorphism.			15

Head of Dept.

Subject Expert

Subject Expert

Subject Expert

Representative from Industry

Student's Representative

Special Invited

**Part-C**

**Learning Resource: Text Books, Reference Books, Others**

1. खनिज तथा क्रिस्टलविज्ञान -डॉ.बी.सी.जैश
2. खनिज विज्ञान के सिद्धान्त डॉ.ए.पी. अग्रवाल
3. प्रकाशीय खनिज विज्ञान केमूल तत्व - विंचेल
4. खनिज तथा क्रिस्टल विज्ञान -डॉ. दीपकराज तिवारी
5. Gribble, C.D. Rutley's Elements of Mineralogy. CBS, 2005.
6. Ford W.E.; Dana's TextBook of Mineralogy. CBS, 2006.
7. Perkins, D.; Mineralogy, Prentice Hall India, 3rd ed. 2012.
8. Rathore, B.S.; Basics of Crystallography, Mineralogy and Geochemistry. Notion Press in dia, 2020
9. Sharma, R.S. and Sharma, Anurag; Crystallography and Mineralogy- Concepts and Methods. Geol. Soc. Ind., Bengaluru, 2013.

**e-resources:**

1. <https://www.mindat.org>
2. <https://www.mooc-list.com/tags/minerals>
3. <https://epgp.inflibnet.ac.in/Home>
4. <https://archive.org/details/in.ernet.dli.2015.233340/page/n15/mode/2up>
5. <https://egvankosh.ac.in/>
6. <https://sites.google.com/ignou.ac.in/bscgeology>
7. SWAYAM-<https://swayam.gov.in/explorer?searchtext>
8. National digital library <https://ndl.iitkgp.ac.in>
9. e-P Gpathshala (MHRD) portal, <https://epgp.inflibnet.ac.in>

**PART-D: Assessment and Evaluation-Theory**

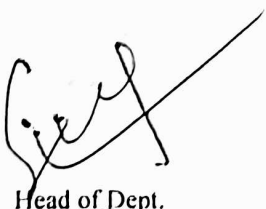
**Suggested Continuous Evaluation Methods:**

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): 30 Marks

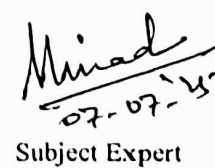
End Semester Exam (ESE): 70 Marks

<b>Continuous Internal Assessment (CIA):</b> (By Course Teacher)	Internal Test/Quiz-(2): 20+20 Assignment/Seminar- 10 Total Marks-30	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
<b>End Semester Exam (ESE):</b>	<b>Two section- A&amp;B</b> Section A: Q1. Objective-10x1=10 Mark; Q2. Short answer type-5x4 =20 Marks Section B: Descriptive answer type questions, 1 out of 2 from each unit-4x10=40 Marks	

  
Head of Dept.

Subject Expert

  
Subject Expert

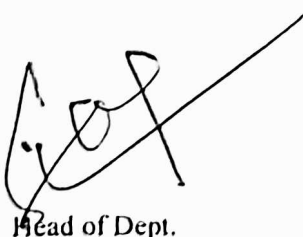
  
Subject Expert

  
Representative from Industry

  
Student's Representative

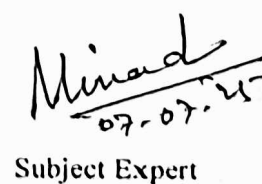
Special Invited

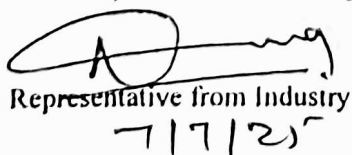
<b>PART-A: Introduction</b>			
<b>Program: Bachelor in Science (Certificate/Diploma/Degree)</b>		<b>Semester: II</b>	<b>Session:2025-2026</b>
1	<b>Course Code</b>	<b>DSC-GESC-02P</b>	
2	<b>Course Title</b>	<b>Lab Course – 02 (Essentials of Geology)</b>	
3	<b>Course Type</b>	<b>Discipline Specific Course (Practical)</b>	
4	<b>Pre-requisite(if any)</b>	<b>As per Government norms</b>	
5	<b>Course Learning Outcomes(CLO)</b>	After successfully completing this course, the students will be able to: <ol style="list-style-type: none"> <li>1. Understand the megascopic properties of Quartz and Feldspar group of minerals</li> <li>2. Understand the megascopic properties of pyroxene group of minerals</li> <li>3. Understand megascopic properties of Amphibole group of minerals</li> <li>4. Describe the megascopic properties of olivine and Mica group of Minerals.</li> <li>5. Describe microscopic identification of minerals.</li> <li>6. Identify the various crystal Systems and Symmetry through crystal models</li> <li>7. Assess the miller Indices of the crystal models</li> <li>8. Identify Twining in crystals.</li> </ol>	
6	<b>Credit Value</b>	1 Credit	(Credit= 30 hours Laboratory or Field learning/ Training)
7	<b>Total Marks</b>	Max.Marks:50	Min Passing Marks: 20
<b>Part B: Content of the Course</b>			
<b>Total No. of learning- Training/performance Periods:30 Periods (30 Hours)</b>			
<b>Module</b>	<b>Topics(Course contents)</b>		<b>No. of Period</b>
<b>Lab/Field Training/ Experiment Contents of Course</b>	1) Microscopic study of minerals and rocks. 2) Plotting of important mineral deposits on the outline map of India.		30

  
Head of Dept.

Subject Expert

  
Subject Expert

  
Subject Expert

  
Representative from Industry  
7/7/25

  
Student's Representative

Special Invited

### Part-C

#### Learning Resource: Text Books, Reference Books, Others

1. खनिज तथा क्रिस्टलविज्ञान -डॉ.बी.सी.जैश
2. खनिज विज्ञान के सिद्धान्त डॉ.ए.पी. अग्रवाल
3. प्रकाशीय खनिज विज्ञान केमूल तत्व - विचेल
4. खनिज तथा क्रिस्टल विज्ञान -डॉ. दीपकराज तिवारी
5. Gribble, C.D. Rutley's Elements of Mineralogy. CBS, 2005.
6. Ford W.E.; Dana's Text Book of Mineralogy. CBS, 2006.
7. Perkins,D.; Mineralogy, Prentice Hall India, 3rded. 2012.
8. Rathore, B.S.; Basics of Crystallography, Mineralogy and Geochemistry. Notion Pressin dia,2020
9. Sharma, R.S. and Sharma, Anurag; Crystallography and Mineralogy- Concepts and Methods. Geol. Soc. Ind., Bengaluru, 2013.

#### e-resources:

10. <https://www.mindat.org>
11. <https://www.mooc-list.com/tags/minerals>
12. <https://epgp.inflibnet.ac.in/Home>
13. <https://archive.org/details/in.ernet.dli.2015.233340/page/n15/mode/2up>
14. <https://egvankosh.ac.in/>
15. <https://sites.google.com/ignou.ac.in/bscgeology>
16. SWAYAM-<https://swayam.gov.in/explorer?searchtext>
17. National digital library <https://ndl.iitkgp.ac.in>
18. e-PG pathshala (MHRD)portal, <https://epgp.inflibnet.ac.in>

### PART-D: Assessment and Evaluation-Practical


#### Suggested Continuous Evaluation Methods:

Maximum Marks: 50Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

<b>Continuous Internal Assessment (CIA):</b>  (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar+Attendance-05 Total Marks -15	Better marks out of the two Test/ Quiz + obtained marks in Assignment shall be considered against 15 Marks
<b>End Semester Exam (ESE):</b>	<b>Laboratory/Field Skill Performance: On spot Assessment</b> A. Performed the Task based on lab. work-20 Marks B. Spotting based on tools & technology (written) – 10Marks C. Viva-voce(based on principle/technology) -05Marks	Managed by Course teacher as Per lab. status

  
Head of Dept.

Subject Expert

  
Subject Expert

  
Subject Expert

  
Representative from Industry

  
Student's Representative

Special Invited

**FOUR YEAR UNDERGRADUATE PROGRAM  
DEPARTMENT OF GEOLOGY  
COURSE CURRICULUM**

PART-A: Introduction				
Program: Bachelor in Science (Certificate/Diploma/Degree)		Semester: II		Session:2025-2026
1	Course Code	GESEC-01		
2	Course Title	RAIN WATER HARVESTING		
3	Course Type	Skill Enhancement Course (SEC)		
4	Pre-requisite(if any)	As per Government norms		
5	Course Learning Outcomes(CLO)	On completion of Course, the students should be able to 1. Define key rain water harvesting concepts, terms, and principles 2. Assess a site for rainwater harvesting potential and water uses 3. Make strategic decisions about what features and systems to use for a site 4. Design a conceptual integrated rain water harvesting plan for a site 5. Refine a conceptual rainwater harvesting plan With relevant systems details		
6	Credit Value	2 Credits	(Credit=30hours-learning&observation)	
7	Total Marks	Max. Marks: 50(35+11)		Min Passing Marks: 20
PART-B: CONTENT OF THE COURSE				
Total No. of Teaching-learning Periods (01 hour per period)-30 Periods (30Hours)				
Unit	Topics (Course Contents)			No. of Period
I	1) Water and its distribution 2) Water cycle 3) Rain Water Harvesting–Concepts &Terms 4) Rain Water Harvesting system			11
II	1) Selection Procedure for Rain Water Harvesting Site 2) Rain Water Runoff, Runoff Coefficient, Infiltration 3) Roof Rain Water Harvesting system 4) Government Policies regarding Rain Water Harvesting system			11

Head of Dept.

Subject Expert

Subject Expert

Subject Expert

Representative from Industry

Student's Representative

Special Invited

**Part -C**

**Learning Resource: Text Books, Reference Books, Others**

**Text Books Recommended -**

1. CPWD Rain Water Harvesting & Conservation Manual –2022 Prabhakar Singh A Puri Publication
2. Rain water Harvesting for Dry lands and Beyond, Volume 1,3 rd edition” Rain source Press.2019 Lancaster, Brad
3. Rainwater Harvesting : In Urban Centers within the Hard Rock Terrain of the Deccan Basalt of India, Dr. Anil Lalwani Springer International Publishing AG2021

**Online Resources**

<http://www.rainwaterharvesting.org/>

**PART-D: Assessment and Evaluation-Theory**

**Suggested Continuous Evaluation Methods:**

Maximum Marks: 50Marks

Continuous Internal Assessment (CIA): 15Marks

End Semester Exam (ESE): 35Marks

<b>Continuous Internal Assessment (CIA): (By Course Teacher)</b>	Internal Test/ Quiz-(2): 5+5 Assignment/ Seminar- 5 Total Marks- 30	Better marks out of the two Test/ Quiz + obtained marks in Assignment shall be considered against 15 Marks
<b>End Semester Exam (ESE):</b>	<b>Two section–A&amp;B</b> Section A: Q1.Objective –10 x1=10 Mark; Q2.Shortanswertype - 5x2=10Marks Section B: Descriptive answer type questions, 3 out of 5 from each unit-3x5=15 Marks	

Head of Dept.

Subject Expert

Subject Expert

Subject Expert

Representative from Industry

Student's Representative

Special Invited