

# VIDYASAGAR UNIVERSITY

Midnapore, West Bengal



*PROPOSED CURRICULUM & SYLLABUS (DRAFT) OF*

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## **BACHELOR OF SCIENCE WITH GEOLOGY (MULTIDISCIPLINARY STUDIES)**

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**3-YEAR UNDERGRADUATE PROGRAMME**  
*(w.e.f. Academic Year 2023-2024)*

*Based on*

**Curriculum & Credit Framework for Undergraduate Programmes  
(CCFUP), 2023 & NEP, 2020**

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VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL

**VIDYASAGAR UNIVERSITY**  
**BACHELOR OF SCIENCE IN PHYSICAL SCIENCES with GEOLOGY**  
*(under CCFUP, 2023)*

Level	YR.	SEM	Course Type	Course Code	Course Title	Credit	L-T-P	Marks				
								CA	ESE	TOTAL		
B.Sc. in Physical Sc. with Geology	1 <sup>st</sup>	I	<b>SEMESTER-I</b>									
			Major (Disc.-A1)	GELPMJ101	T: Introduction to Geology (To be studied by the students taken Geology as Discipline-A)			4	3-0-1	15	60	75
			SEC	SEC01	To be chosen from SEC-01 of Discipline A/B/C of their Hons. prog.			3	0-0-3	10	40	50
			AEC	AEC01	Communicative English-1 (common for all programmes)			2	2-0-0	10	40	50
			MDC	MDC01	Multidisciplinary Course-1 (to be chosen from the list)			3	3-0-0	10	40	50
			VAC	VAC01	VAC-01: ENVS (common for all programmes)			4	2-0-2	50	50	100
			Minor (Disc.-C1)	GEL MI 01/C1	T: Essentials of Geology (To be studied by the students taken Geology as Discipline-C)			4	3-1-0	15	60	75
		<b>Semester-I Total</b>						<b>20</b>				<b>400</b>
		II	<b>SEMESTER-II</b>									
			Major (Disc.-B1)		To be decided (Same as like A1 for students taken Geology as Discipline-B)			4	3-0-1	15	60	75
			SEC	SEC02	To be chosen from SEC-02 of Discipline A/B/C of their Hons. prog.			3	0-0-3	10	40	50
			AEC	AEC02	MIL-1 (common for all programmes)			2	2-0-0	10	40	50
			MDC	MDC02	Multi Disciplinary Course-02 (to be chosen from the list)			3	3-0-0	10	40	50
			VAC	VAC02	VAC-02 (to be chosen from the list)			4	4-0-0	10	40	50
			Minor (Disc.-C2)	GEL MI 02/C2	T: Introduction to Mineralogy; P: Practical (To be studied by the students taken Geology as Discipline-C)			4	3-0-1	15	60	75
		Summer Intern.	CS	Community Service			4	0-0-4	-	-	50	
		<b>Semester-II Total</b>						<b>24</b>				<b>400</b>
		<b>TOTAL of YEAR-1</b>						<b>44</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>

P MJ= Major Programme (Multidisciplinary), MI = Minor, A/B = Choice of Major Discipline; C= Choice of Minor Discipline; SEC = Skill Enhancement Course, AEC = Ability Enhancement Course, MDC = Multidisciplinary Course, VAC = Value Added Course; CA= Continuous Assessment, ESE= End Semester Examination, T = Theory, P= Practical, L-T-P = Lecture-Tutorial-Practical, MIL = Modern Indian Language, ENVS = Environmental Studies

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### MAJOR (MJ)

**MJ A1/B1: Introduction to Geology**

**Credits 04 (FM: 75)**

**MJ A1/B1T: Introduction to Geology**

**Credits 04 [60L]**

#### **Course contents:**

**Unit-I:** Introduction to geology and its scope, Earth and solar system: origin, size, shape, mass, density and its atmosphere.

**Unit-II:** A brief account of various theories regarding the origin and age of the earth; Brief idea of interior of earth and its composition.

**Unit-III:** Weathering and erosion: factors, types and their effects

**Unit-IV:** Earthquakes: nature of seismic waves, their intensity and magnitude scale; Origin of earthquake and preventive measures; Volcanoes: types, products and causes of volcanism.

**Unit V:** Introduction to the concept of deep time in geological studies Stratigraphy: definition and scope; Brief history of development of stratigraphic principles; concepts of Uniformitarianism; Fundamental laws of stratigraphy: Superposition, Faunal succession and correlation; Geological Time Scale.

#### **Suggested Readings:**

1. Duff, P. M. D., & Duff, D (Eds.), 1993. *Holmes' principles of physical geology*. Taylor & Francis.
2. Emiliani, C., 1992. *Planet earth: cosmology, geology, and the evolution of life and environment*.

### MINOR (MI)

**MI-1/C1: Same as Minor-1 (GELMI01) of Geology (Hons) programme**

**Credits 04  
Full Marks: 75**

**MI-2/C2: Same as Minor-2 (GELMI02) of Geology (Hons) programme**

**Credits 04  
Full Marks: 75**

### SKILL ENHANCEMENT COURSE (SEC)

**TO BE CHOSEN FROM THE BUCKET OF SECs OF SELECTED DISCIPLINE A/B/C  
(As per A/B/C Hons. Prog. Syllabus)**