

VIDYASAGAR UNIVERSITY

Midnapore, West Bengal



PROPOSED CURRICULUM & SYLLABUS (DRAFT) OF

BACHELOR OF SCIENCE WITH GEOLOGY (MULTIDISCIPLINARY STUDIES)

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

Based on

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

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 st	I	SEMESTER-I									
			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
		Semester-I Total						20				400
		II	SEMESTER-II									
			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
		Semester-II Total						24				400
		TOTAL of YEAR-1						44	-	-	-	800

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)**