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

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VIDYASAGAR UNIVERSITY

BACHELOR OF SCIENCE IN PHYSICSL 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	1st	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)

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