

## Academic Calendar Year: 2024-25

**P.N.Das College**  
**Department of Geography SEM-I GEOA (HONS)**  
**Introductory Level Course 1**  
**Discipline Specific Major Courses for Geography**

### GEOADS01T – PHYSICAL GEOGRAPHY

3 Credits, .....Marks [45 Hours of Teaching]

PAPER	UNIT	SL. NO.	TOPIC	NO. OF LECT.	LECTURER	Exam Schedule			
						IA-I	IA-II	IA-III	Remarks
						3 <sup>rd</sup> week of September	3 <sup>rd</sup> week of November	As per college schedule	Final Exam- 1 <sup>st</sup> week of January
<b>Unit: I Geotectonics and Geomorphology</b>									
GEOADS01T		1	Internal structure of Earth based on Seismic Evidence.	4	CS				
GEOADS01T		2	Influence of lithology on landforms: Granite and Basaltic landforms.	4	DD				
GEOADS01T		3	Factors controlling landform development; endogenetic and exogenetic forces.	4	RG				
GEOADS01T		4	Evolution of landforms under fluvial process.	4	CS				
GEOADS01T		5	Nature and classification of hazards in Indian context.	4	RG				
<b>Unit: II Climatology, Soil and Biogeography</b>									
GEOADS01T		6	Nature, composition and layering of the atmosphere.	4	RG				
GEOADS01T		7	Distribution of pressure belts and planetary wind system, jet streams and index cycle.	4	CS				
GEOADS01T		8	Factors of soil profile.	2	DD				
GEOADS01T		9	Evolution of an ideal soil profile.	2	DD				
GEOADS01T		10	Concept of Ecosystem- basic ecological principles, ecotone, communities, niche, succession and habitat.	6	CS				
GEOADS01T		11	(Concept of Biomes: study of Tropical rainforest, Taiga, Savannah, Desert) , (Tundra and Temperate grassland.)	7	DD, RG				

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### **GEOADS01P – PHYSICAL GEOGRAPHY (LAB)**

2 Credits, .....Marks [60 Hours of Teaching]

PAPER	UNIT	SL. NO.	TOPIC	NO. OF LECT.	LECTURER	Exam Schedule			Remarks
						IA-I 3 <sup>rd</sup> week of September	IA-II 3 <sup>rd</sup> week of November	IA-III As per college schedule	
GEOADS01P		1	Graphical construction of linear scales: Plain	12	DD				Final Exam-1 <sup>st</sup> week of January
GEOADS01P		2	Altimetric frequency distribution; Demarcation of broad physiographic zones.	14	CS				
GEOADS01P		3	Denoting drainage, geomorphic, settlement and transport attributes using sketches.	14	RG				
GEOADS01P		4	Identification of drainage and channel patterns from Survey of India 1:50,000 topographical maps.	12	CS				
GEOADS01P		5	Construction and interpretation of wind rose diagram.	8	RG				
GEOADS01P		6	<b>Viva voce based on laboratory notebook.</b>						

## Academic Calendar Year: 2024-25

**P.N. Das College**

**Department of Geography SEM-I GEOHM (GENERAL)**

**Minor Courses for Major/Honours Students of Others Disciplines offered by Geography/ Core Courses for the 3- year Multidisciplinary Undergraduate Programme offered by Geography**

### **GEOHM01T/ GEOMC01T – PHYSICAL GEOGRAPHY** □

5 Credits, .....Marks [75 Hours of Teaching]

PAPER	UNIT	SL. NO.	TOPIC	NO. OF LECT.	LECTURER	Exam Schedule			
						IA-I	IA-II	IA-III	Remarks
						3 <sup>rd</sup> week of September	3 <sup>rd</sup> week of November	As per college schedule	Final Exam- 1 <sup>st</sup> week of January
<b>Unit: I Geotectonics and Geomorphology</b>									
GEOGDS01T		1	Internal structure of Earth based on Seismic Evidence.	7	CS				
GEOGDS01T		2	Influence of lithology on landforms: Granite and Basaltic landforms.	7	DD				
GEOGDS01T		3	Factors controlling landform development; endogenetic and exogenetic forces.	7	RG				
GEOGDS01T		4	Evolution of landforms under fluvial process.	8	CS				
GEOGDS01T		5	Nature and classification of hazards in Indian context.	7	RG				
<b>GEOGDS01T</b>									
GEOGDS01T		6	Nature, composition and layering of the atmosphere.	6	RG				
GEOGDS01T		7	Distribution of pressure belts and planetary wind system, jet streams and index cycle.	6	CS				
GEOGDS01T		8	Factors of soil profile.	6	DD				
GEOGDS01T		9	Evolution of an ideal soil profile.	6	DD				
GEOGDS01T		10	Concept of Ecosystem- basic ecological principles, ecotone, communities, niche, succession and habitat.	6	CS				
GEOADS01T		11	Concept of Biomes: study of Tropical rainforest, Taiga, Savannah, Desert, Tundra and Temperate grassland.	9	DD				

**Academic Calendar Year: 2024-25****P.N. Das College****Department of Geography SEM-I GEOSE (HONS. and GENERAL)****SKILL ENHANCEMENT COURSES OFFERED BY GEOGRAPHY****GEOSE-01M – REMOTE SENSING**

3 Credits, .....Marks [45 Hours of Teaching]

PAPER	UNIT	SL. NO.	TOPIC	NO. OF LECT.	LECTURER	Exam Schedule			
						IA-I	IA-II	IA-III	Remarks
						3 <sup>rd</sup> week of September	3 <sup>rd</sup> week of November	As per college schedule	Final Exam- 1 <sup>st</sup> week of January
GEOSE-01M		1	Principles of Remote Sensing (RS): Classification of RS satellites and sensors	10	DD				
GEOSE-01M		2	Sensor resolutions and their applications with reference to IRS and Landsat missions, image referencing schemes and data acquisition.	10	DD				
GEOSE-01M		3	.Preparation of False Colour Composites from IRS LISS-3 and Landsat TM and OLI data. Principles of image rectification and enhancement.	12	RG				
GEOSE-01M		4	Principles of image interpretation and feature extraction. Preparation of inventories of land use land cover features from satellite images.	13	CS				

**4 YEARS UNDER GRADUATE PROGRAM – HONOURS  
SEMESTER -I**

SEMESTER	MAJOR(DSC)	MINOR	MDC	AEC	SEC	VAC	INTERNSHIP	TOTAL CREDITS
I	DS- 1 (5)	MA-1(5), MB-1( 5),	MD-1(3)	AE-1(3)	SE-1 (3)	VA-1(3)	.....	27
Subject Code	GEOADS01T/1P – PHYSICAL GEOGRAPHY				GEOSE-01M – REMOTE SENSING			

**3 YEARS MULTIDISCIPLINARY UNDER GRADUATE PROGRAM – GENERAL**

**SEMESTER - I**

SEMESTER	CORE COURSE (A)	CORE COURSE (A)	CORE COURSE (A)	AEC	VAC	TOTAL CREDITS
I	MA-1( 5)	MB-1( 5)	MC-1( 5)	AE-1(3)	VA-1(3)	21
Subject Code	GEOHM01T/ GEOMC01T Physical Geography					