

1st Semester Geography Syllabus**SEMESTER WISE AND COURSE WISE CREDIT DISTRIBUTION STRUCTURE UNDER CCFUP AS PER NEP, 2020**

SEM	COURSE TYPE	COURSE NAME	CRED IT	MARKS				DISTRIBUTION OF CREDIT		
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I	MAJOR/DS COURSE CODE: GEOG 1011	GEOTECTONICS AND GEOMORPHOLOGY	4	15	60	0	75	3	1	0
	MINOR COURSE CODE:GEOG 1021	GEOTECTONICS AND GEOMORPHOLOGY	4	15	60	0	75	3	1	0
	MULTIDISCIPLINARY COURSE CODE: GEOG 1031	PHYSICAL GEOGRAPHY	3	10	40	0	50	2	1	0
	ABILITY ENHANCEMENT COURSE(AEC) CODE: AEC1041	Arabic/ Bengali/ Hindi/ Sanskrit/ Santali/ Urdu or Equiv. Course from SWAYAM /Any other UGC recognized platform	2	10	40	0	50	2	0	0
	SKILL ENHANCEMENT COURSE (SEC) CODE: GEOG 1051	COMPUTER BASICS AND COMPUTER APPLICATIONS	3	10	0	40	50	0	0	3
	VALUE ADDED COURSE(VAC) CODE: CVA1061	ENVIRONMENTAL SCIENCE/ EDUCATION	4	20	60	20	100	3	1	1
	TOTAL			20				400		

COURSE 1 (CODE: GEOG 1011)**COURSE TITLE: GEOTECTONICS AND GEOMORPHOLOGY****Credits: 4****Total Marks: 75 Course Evaluation: Semester Examination (60 marks) and Internal Assessment (15 Marks)**

Course Objective: • To instil fundamental knowledge about the different aspects of Physical Geography, especially Geotectonics and Geomorphology with the objective to educate them regarding the characteristics of different Earth surface processes and landforms.

Learning Outcome: • Students shall gather ideas about structure of the Earth and the causes for the different tectonic activities over the Earth. They also get opportunity to learn about different exogenic processes and resultant landforms.

Professional Skill Development: • This knowledge will help to provide a foundation for the further studies in Physical Geography or Earth Sciences.

Unit	S.N.	Topic	Teacher
<u>Unit 1: Concepts in Geotectonics</u>	1	Earth's crust and interior: Internal structure with seismological evidences	BD
	2	Theories of Isostasy: Airy & Pratt	BD
	3	Continental Drifting: Evidences, criticism and importance	BD
	4	Sea floor spreading: Process, evidences (Palaeomagnetism)	RH
	5	Plate Tectonics: Mechanism of movements, vulcanism, genesis of earthquake and Mountain building	RH
	6	Folds and Faults: Origin and classification	RH

Unit	S.N.	Topic	Teacher
Unit 2: Fundamentals of Geomorphology	1	Fundamental principles of Geomorphology	AB
	2	Denudational processes and resultant landforms: Weathering and Mass movement	AB
	3	Theories of landscape evolution: Time-dependent (Davis, Penck) and Time-independent (Hack)	RD
	4	Slope development: Theories of King and Wood	RD
	5	Processes and landforms: Fluvial and Coastal	AB
	6	Drainage development and structure: Uniclinal and folded	RD

Suggested Readings: Geotectonics and Geomorphology

- Bloom, A. L. (2002): *Geomorphology: A Systematic Analysis of Late Cenozoic Landforms*, Prentice Hall, Upper Saddle River, New Jersey
- Chorley, R.J. and Kennedy, B.A. (1971): *Physical Geography: A Systems Approach*, Prentice Hall, Upper Saddle River, New Jersey
- Kale, V.S. and Gupta, A. (2001): *Introduction to Geomorphology*, Orient Longman, Kolkata
- Selby, M.J. (1985): *Earth's Changing Surface: An Introduction to Geomorphology*, Clarendon Press, Oxford
- Siddhartha, K. (2001): *The Earth's Dynamic Surface*, Kosalaya Publications, New Delhi
- Singh, S. (2000): *Geomorphology*, Prayag Pustak Bhavan, Allahabad
- Strahler, A.H. and Strahler A.N. (1992): *Modern Physical Geography*, John Wiley & Sons, New York
- Thornbury, W. D. (1960): *Principles of Geomorphology*, John Wiley & Sons, New York
- Ajit Seal Bhumirup Bidya
- Subhas Chandra Mukhopadhyay Bhumirup Bidya o Gothon

SKILL ENHANCEMENT COURSE (SEC) SEMESTER I

COURSE: 1 (CODE: GEOG 1051)

COURSE TITLE: COMPUTER BASICS AND COMPUTER APPLICATIONS (Practical) Credits: 3

Total Marks: 50 Course Evaluation: Semester Examination (40 marks) and Internal Assessment (10 marks)

Objectives: This is an initiative to develop the basics of computer applications to students so that they can apply it to solve the geographical problems through statistical methods. From this course students can learn the significance of computer applications in geographical studies.

Learning Outcomes: Students shall know about fundamentals of computer applications. They can develop an idea about computer basics and acquire skill to solve the statistics. They will be able to identify correlations of different variables and can establish solution of research problems through statistical procedure with the help of computer application.

Professional Skill Development: The acquired knowledge is beneficial to providing for future studies in Geography. This obtained knowledge will definitely providing basic inputs in skill development which will place the students in their professional life in the near future.

Unit	S.N.	Topic	Teacher
Unit 1:	1	Numbering Systems; Binary Arithmetic	AB
	2	Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation	RH
	3	Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation	RD
	4	Preparation of annotated diagrams and its interpretation: Scatter diagram and Histogram	RD
	5	Internet surfing: generation and extraction of information	BD

(Sub unit 2, 3, 4 will be done by using MS Excel)

- Leon, A. and Leon, M.(1999): Introduction to Computer, USB Publishers' Distributors Ltd.
- Sarkar, A. and Gupta, S.K (2002): Elements of computer Science, S Chand and Company, New Delhi
- Blissmer (1996): Working with MSWord; Houghton Mifflin Co.
- Leon, A. and Leon, M.(1999): A beginners Guide to Computers, Vikas
- Rajaraman, V. (2008): Computer Primer; Prentice Hall of India Pvt. Ltd.
- Chauhan, S.; Chauhan, A. and Gupta, K. (2006): Fundamental of Computer; Firewall Media