



8. Course Objectives

The principal objectives of this undergraduate course in Geography are:

- i. To understand the core content and techniques particularly modern techniques in geography.
- ii. To explore the theories and techniques used in regional planning and development.
- iii. The syllabus also aims to develop basic skills of the subject to prepare students to pursue higher studies in geography and to make them successful in search of suitable employment.

9. Course Outcomes

The Geography is the study of distribution of elements over space as well as the mutual and reciprocal relationship between man and environment. It also studies different activities of man in different milieu of life in changing the face of the earth, how 'space' turns into 'place' with different values added to it by man's varied modes of life with due emphasis on major empirical questions of 'what', 'why', 'how' and 'where'. Therefore, the study of this discipline at undergraduate level would have the following learning outcomes in general:

- i. It helps to develop a holistic understanding of the earth as the home of man.
- ii. Student can understand what Geography really is. They shall come to know that geography is not merely a 'science of placenames', rather it is true science of distribution with expertise in various modern skills and techniques.
- iii. Students will be to find their place in job market both in academic as well as corporate sector.
- iv. Students also can explore the engineering aspects of the discipline particularly Geoinformatics, Geoinformation Science, Geomatics Engineering etc.
- v. At the end of the course, students will be capable of segmenting the whole discipline in three different components- physical, human and applied.

10. Course Specific Outcomes

Geography is widely accepted as the most emerging science in recent years due to its versatile character to include contents of both science and humanities. Therefore, students from both the streams can choose the subject at their undergraduate level. Bankura University offers B.Sc, degree in Geography keeping in view the demand of the students as well as towards making it more suitable for higher education where stiff competition is prevailed from other science students. Since its inception, the university follows CBCS curriculum based on UGC guidelines with slight modification in view of the local aspects. Geography basically deals with space. The spatial aspects of the earth, their guiding laws and theories, nature and evolution are recorded and represented through a number of instrumental and mechanical ways. A holistic view of the Earth as an entity and the features within the earth are taught to students. The evolution of natural landscape to cultural landscape is illustrated. The mapping techniques are guides to represent all the physical, social, cultural features through proper scaling and elaborative description. The project based studies and analysis are very helpful in building up a research outlook among the students. They learn about the sample drawing procedures and detailed idea about the important issues around them. The course is intersected into several small sections and put under expert faculties of that field to provide the students the desired benefit of the course. The course outcome/learning outcome along with the broad divisions of the syllabus are represented as under:



Course Code	Course Title	Course Outcome/Learning Outcome
UG (Semester- I)		
S/GEO/101/MJC-1T	Geotectonics and Geomorphology	<ol style="list-style-type: none"> 1. Understanding origin and evolution of Earth with special reference to cross-cutting approach like Big Bang Model 2. To have an idea of our dynamic earth and its geological make up. 3. Understanding major processes that are responsible for its surface features.
S/GEO/102/MN-1T		
S/GEO/103/MD-1P	Surveying and Mapping Techniques	<ol style="list-style-type: none"> 1. Learning measurement of the various features of the earth by developing expertise on cartographic methods and techniques 2. Developing concepts in projecting the earth as a planet. 3. Measuring the earth's surface features on horizontal and vertical planes through learning of different surveying and levelling operations. 4. Develop skills of map making and basics of cartography. 5. They will also be able to handle GPS/GNSS devices, collect waypoints and working with them in MS-EXCEL as well as GIS platforms.
S/GEO/105/SEC-1P	Computer Basics and Applications	<ol style="list-style-type: none"> 1. Students will learn basics of computer architecture- hardware and software components, operating systems, input and output devices etc. 2. They will be made capable of handling MS-EXCEL particularly statistical calculations, formula making and graphical representation of data which has immense application in higher studies.
UG (Semester- II)		
S/GEO/201/MJC-2P	Cartographic Techniques	<ol style="list-style-type: none"> 6. Learning measurement of the various features of the earth by developing expertise on cartographic methods and techniques 7. Developing concepts in projecting the earth as a planet. 8. Measuring the earth's surface features on horizontal and vertical planes through learning of different surveying and levelling operations.
S/GEO/202/MN-2P		
S/GEO/203/MD-2P	Geographical Information System	<ol style="list-style-type: none"> 1. Students will have practical experience on handling GIS softwares and its theoretical background. 2. At the UG level, students will also be able to make their own maps in GIS software and they will have hands on experience on Digital Cartography.
S/GEO/105/SEC-1P	GIS and GNSS Applications	<ol style="list-style-type: none"> 1. Students will have practical experience on handling GIS softwares and its theoretical background. 2. They will also be able to handle GPS/GNSS devices, collect waypoints and working with them in MS-EXCEL as well as GIS platforms. 3. At the UG level, students will also be able to make their own maps in GIS software and they will have hands on experience on Digital Cartography.



11. Technical Skillsets and possible Job opportunities after each exit

Semester	Exit Level	Credits	Technical Skillsets	Job Opportunities
II	Certificate	40+4	<ul style="list-style-type: none"> • Geomorphic Analysis • Map Interpretation • Surveying skill • GIS Mapping skill • GNSS Surveying 	<ul style="list-style-type: none"> • Field Surveyor • GIS Expert in Govt. and private sector • Digital Cartographer
IV	Diploma	82+4	<ul style="list-style-type: none"> • Climatic Data Analysis • Map Interpretation • Surveying skill • GIS Mapping skill • GNSS Surveying 	<ul style="list-style-type: none"> • Field Surveyor • GIS Expert in Govt. and private sector • Digital Cartographer
VI	Degree	124	<ul style="list-style-type: none"> • Map Interpretation • Surveying skill • GIS Mapping skill • GNSS Surveying • Tourism Management • Digital Image Processing 	<ul style="list-style-type: none"> • Field Surveyor • GIS Expert in Govt. and private sector • Project Assistants in academic institutions • Hotels and Tourist Industries such as Travel Agency, Transport Operators
VIII	Degree with Honours/ Research	164	<ul style="list-style-type: none"> • Map Interpretation • Disaster Management Techniques • Climate Change concepts • Knowledge on diseases and their distribution 	<ul style="list-style-type: none"> • Tourism Planner • Town Planner • Cartographer • GIS Consultant • Geography Teacher • Geography Researcher