| Programme: B.Sc. | Year: III | Semester: VI |
|---|---|---|

| Discipline: Geography | | |

## Course Name: Summer Internship

## Course Code: SI601

| Course Type: **SI (Practical)** | Course Details: **SIMC-1** | | L-T-P: **0 - 0 - 4** | |
|---|---|---|---|---|

| Course Credit: **2** | Full Marks: **50** | CA Marks | | ESE Marks | |
|---|---|---|---|---|---|
| | | Practical | Theoretical | Practical | Theoretical |
| | | **30** | --- | **20** | --- |

**Course Overview**:

An internship in **GEOGRAPHY** is gaining first-hand experience by students besides comprehending the way of working in an organisation, leading to improvement of the skill/ aptitude needed to tackle real-world spatial challenges and building research capabilities with learning opportunities.

**Course Objectives**:

Following are the intended objectives of engaging undergraduate students with major course as **GEOGRAPHY** in internship for employability and research internship programmes: (i) Integration of workshop with workplace; (ii) Understanding of the world of work; (iii) Physical and hybrid model learning; (iv) Developing research aptitude; (v) Exposure in emerging technologies; (vi) Enhance entrepreneurial capabilities; (vii) Development of decision-making and teamwork skills; (viii) Cultivate a sense of Social Imagery and Citizenship Responsibility; (ix) Stimulate collaborative influence; and (x) Enhancing professional competency.

**Learning Outcome**:

✧ Students shall get an excellent opportunity to see how the theoretical aspects learned in classes are integrated into the practical world. On-floor experience during the internship provides much more professional experience, often worth more than classroom teaching.

✧ The students will learn various soft skills such as time management, positive attitude and communication skills while performing the tasks assigned in the internship organisation.

**Professional Skill Development**:

✧ The obtained knowledge is vital to test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship.

✧ This knowledge will help to develop essential soft skills like time management, organisation, adaptability, problem-solving, and teamwork.

| **Internship Categories (students can opt any one)** | **60 hrs** |
|---|---|

### I. Conventional

In **conventional/ traditional** internships, interns may work on specific projects or tasks in an **organisation/ research institute/ science laboratory/ parent university**.

| | | Suggested Domains and Internship Tasks | |
|---|---|---|---|
| **Domain** | **Internship Task** | **Example Organisation/ Research Institute/ Science Laboratory** | |
| Geomorphology and Soil Geography | Engineering geomorphology, river hydrology and hydraulics, coastal zone management, polar science and cryosphere studies, soil survey and resource mapping | GSI (Kolkata), River Research Institute (West Bengal), IESWM (Kolkata), NCPOR, ICAR-NBSS&LUP | |
| Climate and Water Studies | Hydrometeorological analysis, WASH analysis, climate perception survey, water quality mapping | IMD-RMC (Kolkata), CGWB, UNICEF Projects, ATREE, NITI Aayog | |
| Urban and Regional Planning | Land use survey, urban mapping, Smart Cities project evaluation | Town & Country Planning Dept., Municipal Corporations, Ministry of Housing and Urban Affairs (TULIP) | |
| Environment and Disaster Management | Hazard mapping, risk analysis, community surveys | WBPCB, NDMA, SDMA, NGOs (e.g., WWF, SEEDS), UNDP Projects | |
| Geospatial Technologies | GIS/ RS-based mapping, spatial analysis | NRSC, ISRO, Space Applications Centre, NRSC-RRSC, NIC, ESRI India, District NRDMS Centre, Remote Sensing Labs | |
| Rural and Agricultural Studies | Agricultural survey, watershed management, land capability studies | Krishi Vigyan Kendras, ICAR, NABARD | |
| Tourism and Cultural Geography | Tourist satisfaction survey, heritage site mapping | Tourism Dept., INTACH, District Tourism Offices | |
| Social and Economic Geography | Household surveys, migration studies, livelihood mapping | NSSO, CSO, Local Government Offices | |
| Transport & Infrastructure | Accessibility analysis, transport flow mapping | Transport Dept., Metro Rail, Urban Development Authorities | |

Students may be offered a course/ project related to their curriculum by the mentors. The content of the course or outline of the project will be designed by the respective mentor.

After completion of the course, the respective mentor will issue a completion certificate along with his/ her opinion about the merit of the course.

## II. Community Engagement Programme

Interns may work on specific projects with **NCC/ NSS/ Local Clubs/ NGOs/ Local Administration**.

| 1. | **Linking learning with community service**: Students can conduct water and soil testing in and around waste disposal sites and coal mining areas and share the results with the local community. Students can also perform surveying and prepare plans for any agriculture field/ plot using chain survey and share the results with the land owner. |
|----|---|
| 2. | **Linking research with community knowledge**: Students can undertake research in partnership with the community/ Local Administration/ NGOs on land subsidence, pollution, solid and liquid waste disposal, biodiversity count/ register, vulnerability assessment of a community (industrial workers, BPL people, racial or ethnic minorities, migrant workers, etc.), identification of areas of concern and remediation. |
| 3. | **Knowledge sharing and knowledge mobilisation**: Students can undertake a survey for cleanliness, hygiene and sanitation with the community/ local administration/ NGOs and educate them about hygiene and nutrition. |

## III. Field-based Learning

Interns may undertake **a field-based learning** in collaboration with local industry, government and private organisations, and business organisations to enhance employability. Interns will be provided opportunities to actively engage in on-site learning and hands-on training to work on research tools, techniques, methodologies, equipment, policy framework and other aspects for enhancing employability.

| 1. | Interns may learn data generation techniques through handling equipment (e.g. hydrological instruments, soil testing equipment, water quality testing equipment, meteorological instruments, and modern surveying instruments) in government or private organisations. |
|----|---|
| 2. | Interns may visit Geospatial Companies and conduct a short research project on the topic of advanced learning that would be effective for their future careers, like learning of application-based software (RS and GIS domain-specific), or programming language. |
| 3. | Interns may visit Micro, Small, and Medium Enterprises (MSMEs) in Paschim Bardhaman district and conduct a short research project on environmental management strategies. |
| 4. | Students may visit government or private organisations to gain valuable exposure of data management (e.g. demographic data management) and analytics, and prepare a short report. |

◇ Summary Guidelines:

- **Title**: Internship Assessment through Projects (Group Internship is allowed)

- **Duration**: 60 hours (may be undertaken at any time during the 2$^{nd}$/ 4$^{th}$/ 6$^{th}$ Semester)

- **Nature of Internship Project**: Inter-Institutional Activities/ Activities with NCC/ NSS, or Industrial/ Research Organisations/ Soft-skill/ Professional Skill/ Technological Skill providing Institutes/ NGO/ MSME/ Local Club/ Rural Internship/ Innovation/ Local Administration/ Science Laboratory

- After the completion of the Internship Programme, the student will submit a report with relevant photographs as part of the report, inclusive of an **Attendance Document** and an **Authenticated Certificate** jointly signed by the **Supervisor/ Mentor** and the **Head of the Institution/ Head of the Department** (in case of University)/ **Laboratory in-charge/ Principal** (in case of college).

• **Internship Programme** will be fully organised, executed and monitored by the **R&D Cell** of the institution through a **Nodal Officer** to be appointed by the **Head of the Institution/ Principal**. The nodal officer may reach out to HEIs, research organisations, science laboratories, corporates, industry, NGOs etc., and moreover to local administrative offices like Deputy Commissioners and heads of certain government offices like labour, municipal, hospital, tourism, public relations, finance, agriculture, social welfare, etc. to seek the opportunity of an internship for the institution. **The nodal officer will ensure the registration of students, internship supervisors, mentors and internship providing organisation in the portal**.

• An institution must nominate an **Internship Supervisor** at the start of the academic year for each batch. The Internship Supervisor from the host institute should monitor the regularity of the intern at his/ her workplace. Students should preferably inform the Internship Supervisor at least one day prior to availing leave during the internship except for emergencies.

• A **mentor** will be identified for **Conventional Internship/ Field-based Learning** by the nodal officer or by students himself/ herself through their network. The mentor should be identified, and his/ her concurrence should be conveyed to the internship supervisor. He/ she will be providing professional/ research guidance to the student during the internship. The mentors will also facilitate networking with other subject matter experts/ professionals, which will enhance the internship experience and learning of the intern.

• Students can opt for activities from the list of Internships for enhancing the employability and/ or developing the research aptitude.

◇ Course Evaluation:

• On completion of the **Summer Internship Programme**, the students will submit a report with relevant photographs as part of the report, inclusive of an **Attendance Document** and an **Authenticated Certificate** jointly signed by the **Supervisor/ Mentor** and the **Head of the Institution/ Head of the Department** (in case of University)/ **Laboratory in-charge/ Principal** (in case of college).

• The report is to be signed by the **Supervisor/ Mentor** with **official seal**.

• **Continuous Assessment: 30 Marks**

**1.** Attendance: An attendance document to be submitted for internal assessment. [**15 Marks**]

**2.** Evaluation of Report: There shall be an evaluation of the report by the Internship Mentor/ Supervisor. [**15 Marks**]

• **End Semester Examination: 20 Marks**

At the end of the semester, a viva-voce will be conducted by the department, including HoD, Supervisor, Mentor and one External Examiner/ Expert appointed from the University to assess the report and knowledge gathered by the students.

**Marks Pattern**: Format of presentation and the quality of the intern's report: **10**; Viva voce: **10**