Course title: Minor Project			
Course code: NRG 111	**No. of credits:** 08	**L-T-P:** 0-0-240	**Learning hours:** 240*
Pre-requisite course code and title (if any):			
Department: Department of Natural and Applied Sciences			
Course coordinator: Dr. Adwitiya Sinha		**Course instructor**	
Contact details:			
Course type: Core		**Course offered:** semester 3	

Course Description: The minor project for MSc Geoinformatics students is projected to acquire practical knowledge in Geoinformatics. The students are directed to undertake a project in an industry/institution related to Geoinformatics for 6-8 weeks. *The suggested learning hours is minimum expected time to be invested for self-learning, interaction with experts, training at the organization, dissertation writing etc over a duration of 6-8 weeks.

Course objectives: The objective of the minor project is to provide an opportunity for students to undertake short research training outside the classroom to solve real-world issues. That mainly involves the application of geoinformatics as a part of its solution, through a short project with an external institution/organization or TERI SAS.

Evaluation criteria [time of evaluation]

The marks obtained by students in the minor project would be graded as per absolute grading scale given by the university (*Annexure 1*).

The distribution of marks for the minor project work as follows:

a. Timeline adherence – 10% [the marks are distributed among joining report, progress reports, feedback form and Dissertation submission]
b. Supervisor feedback – 10% [A feedback e-form would be sent to the supervisor of the host organization at the end of the course]
c. Dissertation – 30 % [Dissertation submitted in the format prescribed in the guideline will be evaluated by the examiner/s. The Dissertation submitted by the student will undergo a similarity check and AI plagiarism check. A penalty for plagiarism would be imposed as per the university standards and policy (*Annexure 2*)]
d. Oral presentation / viva voce – 50% [An evaluation panel consist of internal faculty members and External/s (whenever necessary) would evaluate the oral presentation at the end of the course].

Learning outcomes: A fully engaged student shall be able to get exposure to undertake a short research project. Also, able to communicate and demonstrate the learning through structured thesis and oral presentation.

Pedagogical approach: Student's conduct research under the mentorship of the research supervisor/s in an organization on a topic mutually agreeable to them. The minor project coordinator oversees the process and mentor students whenever required.

The guideline issued by the programme before the implementation of the minor project shall detail the mode of execution, reporting and evaluation. The outcome of the project is evaluated through an oral presentation and the dissertation.

Additional information: For detailed process including timelines for submissions, format for various reports, and other items related to the thesis student should refer the minor project guideline.

Student responsibilities: The students are expected to be in constant touch with the minor project coordinator and to follow minor project guideline strictly.

Course reviewers:

Dr Shefali Agarwal, Group Head, Geospatial Technology & Outreach Programme Group, IIRS (ISRO).
Ms Seema Joshi, GM & Head – Strategic Solutions & Technology, ESRI India

Prepared by Dr Nithiyanandam, Assistant Professor, DNR.

Annexure 1: Minor project grading scale

Table1. The absolute grading scale for the minor project

Mark obtained	Grade
>90	A+
>80≤90	A
>70≤80	B+
>60≤70	B
>50≤60	C+
>45≤50	C
>40≤45	D
≤40	F

The students scoring overall marks less than or equal to 40% (≤ 40%) in the evaluation would be considered unsuccessful and would be graded F (fail).

Annexure 2: Plagiarism in the Dissertation

TERI SAS strongly encourages its students to submit the original dissertation work without similarity and AI plagiarism. TERI SAS has zero-tolerance for plagiarism. The similarity detected in the Dissertation submitted by the student would be examined by the Department Integrity Panel. The DIP would determine the final percentage of plagiarism. The penalty for plagiarism shall be imposed as per table 2 in line with the UGC notification dated 23rd July 2018 on "Promotion of academic integrity and prevention of plagiarism in higher education institutions, REGD. NO. D. L.-33004/99". The students are responsible for resolving the similarity in consultation with the supervisor, and for ensuring the document deemed fit for final submission upon written consent of the supervisors to the minor project coordinator along with the list of amendments.

Table2. Different levels of similarity and AI plagiarism scores and its corresponding penalty (in line with UGC guidelines) for minor project dissertation.

Levels of Plagiarism	Percentage of Similarity & AI Plagiarism Scores*	Penalty
Level 3	> 60%	Registration of the student to the program stands cancelled
Level 2	> 40% ≤ 60%	The student repeats the minor project next year
Level 1	> 10% ≤ 40%	The student needs to revise and resubmit the thesis within a stipulated period decided by the MPEC not exceeding 6 months
Level 0	≤ 10%	Minor similarities or AI plagiarism, no penalty

*Both plagiarism scores, i.e. similarity score and AI score, should be collectively less than the given percentage for a particular level. For instance, if similarity score is less than 10% and AI score is more than 60%, then it will be considered a case of *Level 3*.