

Course title: Minor Project				
Course code: NRE 103		No. of credits: 2	L-T-P: 0-0-56	Learning hours: 56
Pre-requisite course code and title (if any):				
Department: Department of Energy and Environment				
Course coordinator(s):			Course instructor(s):	
Contact details:				
Course type: Core			Course offered in: Summer Break	
Course description: The minor project is a 2-credit summer project (8 weeks), designed for MSc students and is positioned at the end of the first year of studies. Students are expected to submit a dissertation and present his/her work in the university before a committee which will evaluate the work based on the minor project guidelines				
Course objectives: The purpose of minor project is <ul style="list-style-type: none"> • To widen the student's perspective by applying fundamental knowledge and skill sets and to provide an exposure to problem solving for an environmental concern/problem. • To construct, build, execute and innovate unified systems that include stakeholders, skills, knowledge, resources taking account of socio-economic and environmental perspectives. • Appreciate the need and continue to develop aptitude and expertise to incorporate understanding of climate, environment, and resource management issues. 				
Course content				
Module	Topic	L	T	P
1.	The student will carry out the minor project dissertation/thesis either in an organization or internally within TERISAS. The student will choose a topic based on mutual interests, the student's research aspirations and affiliated organisations goals. The student will continuously be supervised by the assigned mentor/supervisor in the affiliated organisation.	0	0	56
Evaluation criteria An evaluation committee will be formed to assess the minor project. The distribution of marks for the evaluation would be as per the following criteria (marks of each component is indicated in parenthesis)				
Evaluation distribution <ol style="list-style-type: none"> a. Minor project report (20%) b. Minor project presentation (30%) c. Question & answers/viva voce (30%) d. Meeting timeline (10%) (Consisting of: joining report (2), two progress reports (2 each), feedback form (2), final thesis (2). e. Response/feedback from the host organization/supervisor (10%) 				
Grading criteria <ol style="list-style-type: none"> a. The students scoring less than or equal to 40% (or $\leq 40\%$) overall marks in the evaluation would be considered unsuccessful and would be graded F (fail). b. If the student fails to appear for the Minor project presentation as per the schedule assigned by the TERI-SAS then the candidate will be assigned zero marks for the presentation and will be graded accordingly. c. It is responsibility of the student to meet the timeline for the minor project as mentioned above. d. It is the responsibility of the student to get the response/feedback duly filled from the affiliated organization/supervisor and email the same through the supervisor to Minor Project Coordinator/ department assistant as per the date mentioned in the guideline. e. Attending presentation is mandatory for all the students. An attendance for this will be maintained. 				

- f. Grade 'F' may be awarded if the student does not abide with the aforesaid points.
 g. Grading of the Minor Project would be done as per the table 2:

Table 1. Minor project part – grading

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

Plagiarism

TERI SAS has zero tolerance for plagiarism. As per UGC (Regd. no. D. L.-33004/99) dissertation/thesis or any other such documents are free of plagiarism at the time of submission by the student. Plagiarism test shall be conducted on the draft submission of the report. The plagiarism report will be shared with the students and would be assigned to mentor/supervisor to address the plagiarism concerns. The plagiarism report and its percentage would be evaluated with a plagiarism check/verify committee within the department and would be analysed in terms of similarity section if that can be treated as plagiarised such as in case of mathematical formulations/ derivations etc. Based on the finalized plagiarism percentage (of similarity) the marks would be deducted as given in Table 1. It would be responsibility of the student in consultation with internal supervisor to resolve the plagiarism issue and the thesis would be deemed to be fit for submission upon written consent of mentor/supervisor to minor project coordinator.

Table 2. Percentage of marks to be deducted from total mark assigned to dissertation/thesis submission based on plagiarism

Penalty imposed on the student based on plagiarism as per UGC guidelines.

Levels of Plagiarism	Percentage of similarity	Maximum percentage marks to be deducted from dissertation/thesis
Level 3	> 60%	Students registration to the program stands cancelled
Level 2	> 40% ≤ 60%	Student repeats the major project next year
Level 1	> 10% ≤ 40%	The student is required to resubmit the thesis within a week
Level 0	≤ 10%	0%

Non-adherence to timelines

1. Reports must be uploaded on the portal as per the date mentioned in timeline.
2. Monthly progress report: No monthly progress report will be accepted until its is complete and signed/approved by mentor/supervisor.
3. Submission of draft and final report for evaluation: The softcopy for draft and final report must be uploaded as per the timeline. Report that is submitted after the mentioned date will not be considered for evaluation and “0” marks will be awarded for the same. Further, the regulations of the TERI-SAR apply as laid down in the student handbook (available at the TERI School of Advanced Studies web page).
4. Minor Project Report: The Minor project is completed after the plagiarism free report is submitted as mentioned in the guidelines. Any non-compliance regarding certificate, formatting instructions as suggested for different sections of the report and any other requirement as mentioned in the guidelines will be considered incomplete and would lead to

non-submission of the dissertation/thesis. Thus, students are advised to follow all the guidelines of Minor project.

Learning outcomes

At the end of this course, the student should be able to –

- To appreciate the impact of sustainable solutions in a societal and environmental framework and to express the knowledge of, and need for sustainable development.
- To understand ethical principles and commitment to professional ethics and responsibilities.
- Work effectively as an individual, and team member in multidisciplinary settings.
- Communicate effectively on complex environmental problems/concerns with community and society at large, to comprehend and transcribe effective results resulting into reports and documentation.
- Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of climate change, environmental resource management and meet the societal needs and demands in sustainable manner.

Pedagogical Approach: As required by the minor project topic identified by the student and agreed by mentor/supervisor.

Course Reading Materials

1. Topic relevant books and published papers and reports. Sources can be found on but not limited to –
www.scopus.com
www.sciencedirect.com
www.springer.com
www.wiley.com
www.jstor.com
www.taylorandfrancis.com

Additional Information

1. A Minor project guideline indicating timeline of different activities and other details will be issued by the department before the start of the semester.
2. If students are doing a combined project, they are required to seek approval from the Minor project coordinator by writing a justification for the joint/combined work. Only if the approval is given by the minor project coordinator the student will be allowed for joint work. However, the students are required to upload separate progress reports and other documents on their portal. The individual reports should not be verbatim copy of each other.
3. Feedback form – Follow-up with the respective mentor/supervisor is to be done by the student and any delay due to technical reasons should be informed before final submission with a copy to external supervisor. It is solely the responsibility of the student to get the feedback submitted by external before the deadline.
4. Plagiarism report would be shared with the mentor/supervisor and the students

Mentor/Supervisor

Each student has one mentor/supervisor from her/his host organization. Mentor/supervisor is to be identified by the host organization. Guest/visiting faculty can act as mentor/supervisor, if mutually agreed upon it.

Student responsibilities

Following the issued instructions and guidelines of the minor project in entirety.
Regular updating the progress of work to the mentor/supervisor.
Timely submission of all required documents through portal.

Prepared by

Dr Chander Kumar Singh

Course Reviewers

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2. **Dr. Anshumali, Associate Professor**, Department of Environmental Science and Engineering, Indian Institute of Technology (Indian School of Mines)
3. **Prof. Umesh Kumar Singh**, Head of the Dept., Centre for Environmental Sciences, Central University of South Bihar