



**FIRST SEMESTER 2021-2022**  
Course Handout Part II

Date: 20-8-2021

In addition to Part-I (General Handout for all courses appended to the time table) this portion gives further specific details regarding the course.

**Course No.** : BITS F214  
**Course Title** : Science, Technology and Modernity  
**Instructor-in-Charge** : Biswanath Dash, Room No. K 118, HSS

**Scope and Objective of the Course:** The course is aimed at exploring the interrelationship between modern society and science/ technology. Specifically, it seeks to interrogate the relationship in terms of analyzing emergence of modern science in the western world and its implication and contribution to the idea of a modern society. It covers to an extent, the impact of such development in India and examines the contemporary debates over the role of science/technology within modernization and globalization.

**Textbooks:**

1. McLelllan III, J.E. and Dorn, H. 2006. *Science and Technology in World History*, Second Edition, Maryland: John Hopkin University Press

**Reference books**

1. Reading material to be uploaded on CMS
2. Bernal, J.D. 1971 *Science in History* Vol. 2. Massachusetts: MIT Press

**Course Plan:**

Lecture No.	Learning objectives	Topics to be covered	Chapter in the Text Book
1-2	Gain an overall perspective of the course	Course Structure Science and Technology in Global Context	TB Part I
3-15	Learn about origin and evolution of Natural Philosophy/Science in different cultures	Greek Natural Philosophy, Arabic Middle Ages Chinese and South American Civilization	TB Part I and II  Reading Material
16-25	Examine emergence of modern science and its role in	European Renaissance Scientific and Industrial Revolution	TB Part III and IV



	industrial revolution in the western world		
26-36	Reflect and analyze evolution of Science/ Technology in India	Vedic period Gupta era Moghul period Colonial India	Reading material
36-43	Appreciate 'modernity' as an idea and its relationship to science and technology	Traditional and Modernity, Modernity and Globalization	Reading material

#### Evaluation Scheme:

Component	Duration (Minutes)	Weightage (%)	Date & Time	Nature of Component
Assignment		35		Open Book
Mid semester Examination	90	30	22/10/2021 3.30 - 5.00PM	Open Book
Comprehensive examination	120	35	24/12 FN	Close Book

**Notices:** Notices will be displayed on CMS.

**Plagiarism:** Please be aware that cutting and pasting from websites is considered plagiarism. Students are advised to document all sources. If you are not sure that you need to document a source, please ask the instructor. Any hint of plagiarism will fetch a zero.

**Chamber consultation:** Thursday 11-12. A google meet link will be provided for online consultation.

**Make-up Policy:** The make-up for an evaluation component will be given only in genuine cases.

**Academic Honesty and Integrity Policy:** Academic honesty and integrity are to be maintained by all the students throughout the semester and no type of academic dishonesty is acceptable.

**Biswanath Dash**

**INSTRUCTOR-IN-CHARGE**

