



Birla Institute of Technology & Science, Pilani
Hyderabad Campus

INSTRUCTION DIVISION

First SEMESTER 2016-2017

Course Handout Part II

Date: 01-08-2016

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

1. Course Number: BITS F214

2. Course Title: Science, Technology and Modernity

3. Instructor: Biswanath Dash

Department of Humanities and Social Sciences, BITS Pilani, Hyderabad Campus

4. COURSE DESCRIPTION

The course is aimed at exploring the interrelationship between science, technology and modern society. More 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 the broad contemporary debate over the role of technology within modernity and globalization.

5. Text Book:

Bernal, J.D. 1971 *Science in History* Vol. 2. Massachusetts: MIT Press

6. Reference Book:

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

Gaukroger, S. 2006. *The Emergence of Scientific Culture: Science and the Shaping of Modernity 1210-1685*. Oxford: OUP.

7. Course Plan:

Lecture No.	Learning Objectives	Topics to be covered	Text Book and Ref. material
1-4	Introduction to course and perspectives	Notion of Science, Technology, Social theories of Modernity	Reading material
5-15	Historical Background in a Global Context	Early civilization including Greek Natural Philosophy, Eastern World, Middle Ages Development	TB Part IV Reading Material
16-25	Emergence of Modern Science	Renaissance, Scientific and Industrial Revolution	TB Part V
26-34	Science and Technology in India	Vedia era, Moghul period and Social History of Science in Colonial India	Reading material
35-40	Process of globalization and its implication	Technology, Modernity and Globalization	Reading material

8. Evaluation Scheme:

EC No.	Evaluation Component (EC)	Duration	Weightage	Date, Time and Venue	Nature of Component
1.	Test-I	60 minutes	20%	13/9, 1.00--2.00 PM	Closed
	Test-2	60 minutes	20%	21/10, 1.00--2.00 PM	Open
2.	Assignment	Take home	15%		
3.	Class participation		05%		
4.	Comprehensive Examination	180 minutes	40%	08/12 FN	Closed

9. Course Notices: Notices, if any, concerning the courses will be displayed on Department Notice Board.

10. Chamber consultation: Will be announced in the class.

Biswanath Dash

INSTRUCTOR-IN-CHARGE