

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI

1.	Title of the Course	Science, Technology and Society
2.	Course Number	HS3030
3.	Status of the Course	Elective Course
4.	Structure of Credits	3-0-0-3
5.	Offered to	B. Tech.
6.	New Course/ Modification to	Modification
7.	To be offered by	Prof. Raghurama Raju
8.	To take effect from	July 2017
9.	Prerequisite	Nil
10.	Whether approved by the Program	Yes
11.	Course Objective:	The course begins by elucidating the relation between science and philosophy in both classical and modern thought. While in the classical times science was sought to be subsumed within philosophy (Aristotle), in contrast, in the modern times philosophy is seen as a part of science (Descartes, Bacon, Hobbes). This difference is sought to be highlighted by bringing into the discussion the contributions of Copernicus and Galileo.
12.	Course Content:	Bertold, Brecht's play, <i>The Life of Galileo</i> ; Bertrand Russell's work, <i>The Impact of Science on Society</i> ; the relation between natural intelligence and Artificial Intelligence by examining the relation between modern conception of individual instituted by Descartes and the thinking machine; positive and negative aspect of technology by discussing specific instance like the use of technology for welfare of human being; the Bhopal disaster; Science and technology in India with reference to Swami Vivekananda and Sri Aurobindo.
13.	Text Books:	1. Brecht, B. <i>The Life of Galileo</i> . Bloomsbury Publishing India Private Limited, 2001. 2. Vivekananda, S. <i>The Complete Works of Swami Vivekananda</i> . Vol. 1 to 8. Advaita Ashram, 1994.
14.	References:	1. Bacon, F. <i>The New Organon or True Directions Concerning the Interpretation of Nature</i> . Penguin, 2012. 2. Collins, H., and Trevor P. <i>The Golem at Large: What you should know about technology</i> . Cambridge University Press, 2002. 3. Descartes, R. <i>Discourse on Method</i> . Oxford University Press, 2009 4. Hobbes. <i>Leviathan</i> . Penguin Books, 2002. 5. Oberoi, J.P.S. <i>Science and Culture</i> . Oxford University Press, 1987. 6. Sarukkai, S. <i>What is Science?</i> New Delhi: National Book Trust, 2012. 7. Sismondo, S. <i>An Introduction to Science and Technology Studies</i> , Wiley Blackwell, 2010.