



Marwadi University

Bachelor of Science

Semester I (w.e.f. Jan, 2018)

Subject Code: 02SL0102 - Subject Credits: 02

Subject Name: Reading and Writing for Science

Course Description

The course intends to develop the learners' abilities for reading and writing in science. The learners will acquire and practice the conventions of reading and writing related to science. The course focuses on reading and writing articles and making presentations on the topics related to science.

Course Objectives

The course will enable the students

1. to understand the usage of language in terms of reading and writing for science;
2. to analyze and understand the language in context of science.

Unit 1: Studying simple sentence structures

1. "Time and Space Play Weird Games" by Rakesh Popli
2. "Romping in Four-Dimensional Space" by Rakesh Popli

Recommended Readings/ Viewings:

- Popli, Rakesh. "Romping in Four-Dimensional Space." *A Stroll through Space-Time: A Leisurely Discourse on Einstein's Relativity Theory*. Vigyan Prasar, 2003, pp. 50-63.
- Narliar, J V. "Cosmic Illusions." IUCAA SciPOP, 6 July 2016, https://www.youtube.com/watch?v=bnKC_FHjAbQ. Accessed 30 June 2017.
- "Echoes from The Beginning: A Journey Through Space and Time." World Science Festival, 18 Aug. 2014, <https://www.youtube.com/watch?v=qRHLoEbOISI>. Accessed 30 June 2017.

Unit 2: Describing scientists

1. C.N.R. Rao(1934-)
2. Venkatraman Ramakrishnan(1952-)
3. Dr. Jayant Vishnu Narlikar(1938-)



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Recommended Readings/ Viewings

- Barath, Harini. “Going places: an interview with Venkatraman Ramakrishnan.” *IndiaBioscience*. 14 Aug. 2015, <https://indiabioscience.org/columns/conversations/going-places-an-interview-with-venkatraman-ramakrishnan>. Accessed 30 June 2017.
- Sarmah, Subhramgshu Pratim. “A Conversation With The Award Winning Scientist Who Challenged The ‘Big Bang Theory’.” *Youth Ki Awaaz*, 5 Feb. 2016, <https://www.youthkiawaaz.com/2016/02/interview-with-astrophysicist-jayant-vishnu-narlikar/>. Accessed 30 June 2017.
- Sen, Nirupa. “In Conversation: Interview with C.N.R. Rao.” *Current Science*. Vol. 82, No. 7, 10 April 2002, <http://www.iisc.ernet.in/currsci/apr102002/788.pdf>.

Unit 3: Understanding and writing dialogues

1. *The Story of Physics* by T. Padmanabhan
2. *Einstein for Beginners* by Joseph Schwartz

Recommended Readings/ Viewings

- Kumar, Vinay. “Story of Physics.” *YouTube*, 26 April 2017, <https://www.youtube.com/playlist?list=PLxs2Mzks6e-uSxiKUGQrs4W-irDN4LvZ9>. Accessed 30 June 2017.
- Schwartz, Joseph, and Michael McGuinness. *Einstein for Beginners*. Pantheon, 2003.
- Padmanabhan, T. *The Story of Physics*. Illustrated by Keith Francis, Redrawn by Avinash Deshpande, Vigyan Prasar, 2002.

Teaching Scheme

Teaching Scheme (Hours per week)	Evaluation Scheme					Total Marks	
	Theory	ESE	IA	CSE	Viva		Term Work
2 Hours		00	30	20	25	25	100



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1. **IA will consist of the following components (30 marks):**
 - a. **Assignments (20 Marks):** Students will prepare three written assignments.
 - i. Reading aloud a recent science related news. (5 Marks)
 - ii. Prepare a comic strip having titles such as: (i) The story of chemistry, (ii) The story of the solar system, (iii) The story of the stars, etc. (5Marks)
 - iii. Describe the scientist: (the list will be provided) (5Marks)
 - b. **In-Class Participation (10 Marks)**
2. **CSE (20 marks):**
 - a. **(Term Paper):** Students will have to write a term-paper on the given topic.
3. **Viva (25 Marks):** Viva will be conducted at the end of the semester. It will be based on the CSE, Term Work, Assignments and topics covered in the syllabus.
4. **Term Work (25 Marks):**
 - a. **(Term-End Presentation):** Students will make a presentation based on topics provided by the faculty, at the end of the semester.