

Jamshedpur Women's College, Jamshedpur
B.A. History Honours Programme
CBCS, Semester-I
Marks: 70 (ESE), 30 (CIA), Credits: (5+1)

Generic Elective-1

Science, Technology and Medicine in India

Unit I: Introduction

- Definition of science and technology
- Interaction of science, technology and society

Unit II: Science and Technology in Ancient India

- Technology in the Indus Valley Civilization
- Developments in science and technology from 1st century CE to 1200 CE
- Developments in astronomy: Aryabhata, Varahmihira and Bhaskar I
- Development in medicine and surgery: Charaka and Sushruta Samhita

Unit III: Science and Technology in Medieval India

- Persian wheel, Gun powder, paper manufacturing, textiles, building technology
- Medical knowledge in medieval India: Unani, Ayurveda and Alchemy
- Astronomy and mathematics in medieval India

Unit IV: Science and Technology in Colonial India

- Establishment of engineering and medical colleges and scientific institutions
- Establishment of Tata Iron and Steel Company (TISCO) at Jamshedpur

Unit V: Science and the Indian Nation Making

- Atomic Power
- Policies and Institutions
- Homi Jahangir Bhaba, Meghnad Saha, A.P.J. Abdul Kalam

Suggested Readings

- A. K. Bag, *History of Technology in India*, 4 vols, Indian National Science Academy, New Delhi, 1997
A. L. Basham 'The Practice of Medicine in Ancient and Medieval India' in C. Leslie (ed), *Asian Medical Systems: A Comparative Study*, California University Press, 1977
A. J. Qaisar, *The Indian Response to European Culture and Technology (AD 1498-1707)*, 1982
A. Rahman, *History of Indian Science, Technology and Culture*, OUP, 1998
A. Roy and S. K. Bagchi (eds.), *Technology in Ancient and Medieval India*, Delhi, 1986
Benjamin Zacharia, *Developing India: An Intellectual and Social History, 1930-50*, OUP, 2005
Biswamoy Pati and Mark Harrison (eds), *The Social History of Health and Medicine in Colonial India*, Routledge, 2009

Kusum Kumari
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B.A. History Honours Programme
CBCS, Semester-II
Marks: 70 (ESE), 30 (CIA), Credits: (5+1)

Generic Elective-2

Women and the Indian Nation Making c. 1857-1947

Unit I: Women in the Revolt of 1857

- a. Rani Laxmi Bai of Jhansi
- b. Rani Avanti Bai of Ramgarh
- c. Begum Hazrat Mahal

Unit II: Socio-religious Movements and Women

- a. Issues of women in Brahmo Samaj, Arya Samaj and Theosophical Society
- b. Ishwar Chandra Vidyasagar and the Widow Remarriage Act

Unit III: Women in the Freedom Struggle

- a. Pandita Ramabai, Swarna Kumar Devi, Sarojini Naidu, Sarala Devi
- b. Bhikaji Rustom Cama, Bina Das, Kalpana Datta, Pritilata Waddadar
- c. Rajkumari Amrit Kaur, Mira Behn, Sucheta Kripalani, Aruna Asaf Ali

Unit IV: Contribution of Women's Organisation

- a. Poona Seva Sadan 1917, Women's Indian Association 1917, Rashtriya Stree Sabha 1921, All India Women's Conference 1927

Suggested Readings

- Bharati Ray, *Women of India: Colonial and Post-Colonial Periods*, PHISPC Series, Vol. IX, Part 3, 2005
- Devaki Jain (ed), *Indian Women*, Publications Division, Delhi, 1976
- Geraldine Forbes, *Women in Modern India*, Cambridge University Press, 1998
- Gedge and Choksi (eds), *Women in Modern India*, Bombay, 1929
- Leela Kasturi and Vina Mazumdar, *Women and Indian Nationalism*, Vikas, Delhi, 1994
- Manmohan Kaur, *Women in India's Freedom Struggle*, Sterling, Delhi, 1985
- Radha Kumar, *Stri Sangarsh Ka Itihas, 1800-1990*, Vani Prakashan, 2005
- Rajan Mahan, *Women in Indian National Congress (1921-1931)*, Rawat Publications, Jaipur, 1999
- Sumit Sarkar and Tanika Sarkar (eds), *Women And Social Reform in Modern India, 2 vols*, Orient Blackswan, 2011
- Uma Chakravarti, *Rewriting History: The Life and Times of Pandita Ramabai*, Kali for Women, 1998

Kysum Karmari