

SARDAR PATEL UNIVERSITY
Programme & Subject: Bachelor of Education (Advanced)
Semester: I
Syllabus with Effect from: June-2010

Paper Code: UE01CBEA11	Total Credit: 3
Title Of Paper: Methodology of Teaching Science	

Unit	Description in Detail	Weightage (%)
I	Concept of Science Place of Science in curriculum and life Meaning and nature of Science	30%
II	Approaches, Methods and Techniques of Teaching Environmental Education Lesson Planning: Concept, Significance and planning Unit Planning: Concept, Significance and planning Difference between a Lesson Plan and Unit Plan Methods of teaching Science Lecture Method Laboratory Method Problem solving Method Project Method Techniques in teaching Science: Demonstrating, Discussing, Observing Processes of teaching Science Observing Classifying Predicting Inferring Measuring Experimenting Hypotheses Formulation Approaches in teaching Science Constructivist Approach Participatory Approach Teaching Aids and Showcasing Concept of Teaching Aids Types of teaching Aids Significance of Teaching Aids Preparation of Improvised Teaching Learning Materials (Preparation of Improvised TLM [ANY TWO] like workbooks, scrap book, Presentations, individualized materials, herbarium sheets, printed materials, magazines, educational games, etc.)	30%
III	Science: Content As per the prescribed syllabus of C.B.S.E. and G.S.E.B of std. VIII to X	40%

Basic Texts & Reference Books:-

- Agarwal D.P. (2004). Modern Methods of Teaching Chemistry, Sarup and Son
- Ashok P. (1998). Threads of Life , Delhi: National Institute Of Science Communication
- Bhatnagar A.B. (2005). Teaching of Science, Delhi: Vinod Pustak Mandir



- Bhattacharya (1986). Aspects of Human Ecology, North Book Centre
- Digumarti R. & Kandi J.S. (2004). Methods Of Teaching Science , New Delhi: Discovery Publishing House
- Janardan P. (2005). Practical Aspects in Teaching of Science, New Delhi : Kanishka Publishers
- Natraj. S. (2006). Learning To Teach , Vallabh Vidya Nagar: CVM
- Pandey V.C. (1998). Theads of Life , New Delhi: Isha Books
- Pandey V.C. (2005). ICT in Childhood Education, New Delhi: Isha Books
- Pandey V.C. (2005). Teaching in Technology Rich Environment, New Delhi: Isha Books
- Shewale J.G. (1996). Enzyme Everywhere, Delhi: National Institute of Science Communication
- Sood J.K. (2005). Teaching of Science, Delhi: Vinod Pustak Mandir
- www.sciencedaily.com
- www.geocities.com
- www.springerlink.com/link.asp?id=108922
- www.environment.murdoch.edu.au
- Refer the text books of I.C.S.E., C.B.S.E. and G.S.E.B of std. VIII to XII
- <http://www.shamsha-emanuel.blogspot.com/>

