

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

<b>Paper Code: UE02CBEA09</b>	<b>Total Credit: 3</b>
<b>Title Of Paper: Methodology of Teaching Science</b>	

Unit	Description in Detail	Weightage (%)
I	<b>Laboratory Management</b> <b>Theory</b> Concept of Laboratory Types of laboratory Safety measures in Laboratory Significance of Laboratory Role of a Teacher in Laboratory Visit to a Laboratory and preparing a report <b>Practical Work in a Laboratory</b> Arranging Laboratory session Preparing Laboratory sheets Practical work in Laboratory : Demonstrations and experiments Guiding Laboratory sessions	30%
II	<b>Co-curricular activities in Science and Effective Science Teacher</b> <b>Science Club</b> Concept Objectives Activities: Exhibitions, Science fair activities, etc. <b>Using Community Resources in teaching Science</b> Botanical garden Exhibitions Museum Aquarium Media : (Learning through watching various Channels and Programs) <b>Effective Science teacher</b> Qualities of an effective Science teacher in the 21 <sup>st</sup> Century Technology in teaching Science Challenges faced in teaching of Science	30%
III	<b>Science: Content</b> As per the prescribed syllabus of C.B.S.E. and G.S.E.B of std. XI and XII	40%

**Basic Text & 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](http://www.sciencedaily.com)
- [www.geocities.com](http://www.geocities.com)
- [www.springerlink.com/link.asp?id=108922](http://www.springerlink.com/link.asp?id=108922)
- [www.environment.murdoch.edu.au](http://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/>

