

SARDAR PATEL UNIVERSITY
Programme & Subject: Bachelor of Education
Semester: II
Syllabus with Effect from: June-2013

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| Paper Code: UE02EBED09 | Total Credit: 3 |
| Title Of Paper: Method of Teaching Science | |

| Unit | Description in Detail | Weightage (%) |
|------|---|---------------|
| I | General Science Laboratory General Science Laboratory Concept and importance Planning and upkeep Improvise teaching aids Need and importance Construction and application Relationship of Science Internal relationship (Chemistry, Physics, Biology) Inter disciplinary relationship (Maths, Geography, Languages, Art) | 30% |
| II | Science Club, Science fair and Learning resources Science Club Objectives Activities Science Fair Importance Evaluation Learning resources Botanical Garden (Importance, Construction, upkeep) Sky observation (Importance, Planning, Precautions) | 30% |
| III | Std: 8 : Semester - II Books Std: 9 : Semester - II Books | 40% |

Suggested Activities:

- Visit and report of community Science centre, botanical garden, SPRERI, Science city, planetarium etc.
- Case Study: patient suffering with various diseases, scientists, doctors
- Searching of various reference material of Science education
- Planning constructivist lesson plan, e plans
- Preparation of various learning aids, hands on activities etc
- Project work related to social awareness in Science, current affairs
- Demonstration of various activities and experiments during practice teaching
- Science news on bulletin board/prayer session
- Formation of Science club
- Preparing model projects for Science fair
- Study of biographies of eminent scientists
- Orientation to historical perspectives of Science



Basic Text & Reference Books:-

- Bhatnagar A. B. (2005). Teaching of Science, Delhi: Vinod Pustak Mandir, Agra
- Digmurti R. & Kandi J. S. (2004). Methods of Teaching Science, New Delhi: Discovery Publishing House
- Kerr, J. F. (1964). Practical Work in School Science, Leicester University Press
- Kocher, S. K. (1977). Methods and Techniques of Teaching, Sterling Publishers (P) Ltd., New Delhi
- Nelson, L. W. (1970). Instructional Aids: How to make them and use them Iowa: Brown Co. Publishers
- Radha Mohan. Innovative Science Teaching
- Sood, J. K. (2005). Teaching of Science, Delhi: Vinod Pustak Mandir, Agra
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