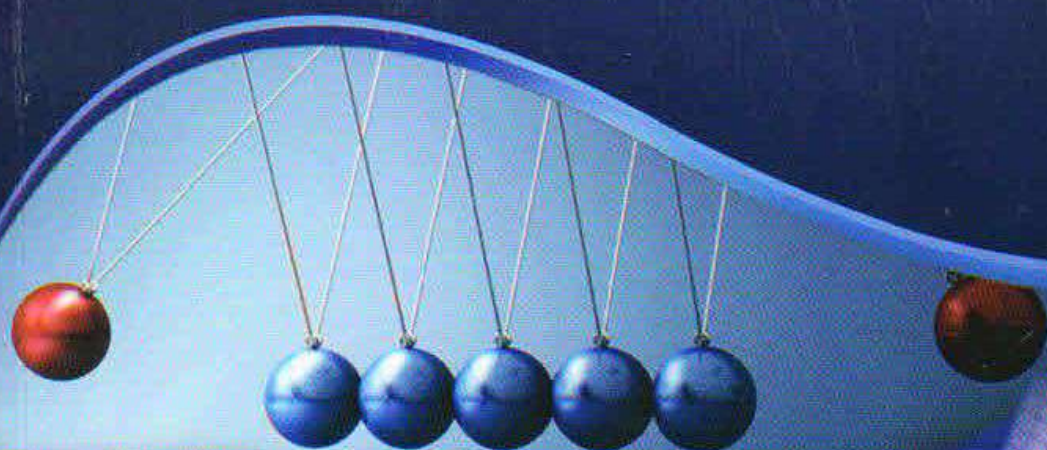




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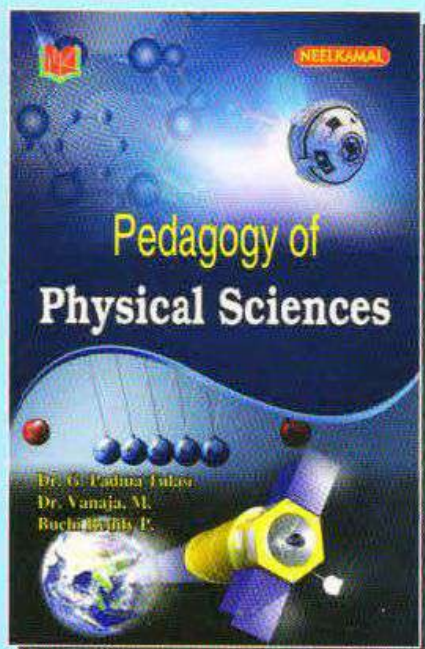


Pedagogy of Physical Sciences



Dr. G. Padma Tulasi
Dr. Vanaja, M.
Buchi Reddy P.





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About the Book

This book "**Pedagogy of Physical Sciences**" has been designed according to the present curriculum of the Two Years B.Ed. course syllabus. If the teacher is to remain effective in such a changing scenario She/he has to develop competencies suitable for it. The academic and professional preparation of teacher-educators (or) teachers has been of a formal nature; their teaching, as a consequence, has tended to be equally formal. The contents of the book reflect a detailed discussion on the theory and practice of physical sciences as it deals with meaning of the science, nature of the science, scientific method, how children learn science, science and society, contribution of some eminent scientists, aims and objectives of physical sciences, physical sciences' relations with society, technology. Learning objectives – meaning, importance developing learning objective Anderson & Krothwohl's Simpson and revised taxonomical educational objectives. Microteaching Cycle, Year Plan, Unit Plan, Model Period Plan Presented in the book. Content-cum-methodology, steps to the pedagogical analysis and content and teaching skills.

About the Authors

Dr. G. Padma Tulasi, currently working as Principal, Montessori Mahila College of Education, Vijayawada. She has 30 years of rich and varied experience as a Teacher Educator. She has attending several National and International Seminars and presented papers. She is guiding students of Ph.D. and M.Phil. (Education) of Krishna University. She has also written books on various aspects of Education.

Dr. Vanaja, M., a post graduate in Science Education, completed her Doctoral work as UGC JRF in Education and is currently working as an Associate Professor, Dept. of Education and Training, Maulana Azad National Urdu University, Hyderabad. Prior to this, she worked in Acharya Nagarjuna University, Guntur and IASE, S.V. University, Tirupati, teaching Physical Science Methodology to B.Ed. students and Research Methodology and to M.Ed. Students. She has authored more than 12 books on Education. To her credit she has 25 research papers in National and International Journals/Edited books and presented 40 research papers in International and National Seminars/Conferences/Workshops. She has guided 6 Scholars for their doctoral and 20 for their M.Phil. Degrees in Education. 6 Ph.D. Scholars are pursuing their research work under her guidance.

Buchi Reddy.P is a teacher educator with almost 12 years of teaching experience in various levels like schools, Junior Colleges and B.Ed. Colleges as a faculty of Physics and Pedagogy of Physical Science. He has contributed papers on science and scientific TQM and effective teaching in science and attended several seminars, workshops in education.

PEDAGOGY OF PHYSICAL SCIENCES

Dr. G. Padma Tulasi
Dr. Vanaja, M.
Buchi Reddy P.

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☎ 24757140, 24757197, +91 80199-18182, +91 91210-01237

Delhi Office:

4764/1, 23, Ansari Road, Daryaganj, New Delhi-110 002,

☎ 011-23244237, +91 98118-28953

e-mail : neelkamalbooks@gmail.com

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Preface

The present book "Pedagogy of Physical Sciences" is developed according to the actual needs and expectations of the trainee teachers. Keeping this ideology behind, the pedagogy and content knowledge was totally prepared as friendly approach of learning without leaving any trivial matter. It is useful for other Universities of Telangana as well as other states, as the syllabi are based on NCTE Core-curriculum Guidelines. As there is scarcity of quality material available in English medium which is in accordance with the new syllabus, this maiden attempt is made to benefit the candidates in their preparation and support the process of quality teacher education and teachers entry into the schools.

In this book, focus given on the meaning and importance of science in general and physical sciences in particular, the contributions of the scientists are elaborately presented. The details of different values, aims, objectives and especially the Instructional Objectives Anderson, Krathwohl, Simpson and Revised Blooms Taxonomy of Educational Objectives in Physical Sciences are clearly expressed.

How to teach in the classroom conditions to a teacher is very important. More emphasis on the approaches / methods / techniques is given; a glance of teaching the content from class VI to X with the usage of resource material and Academic Standards, Year Plan, Unit Plan, Model Period Plan presented in a tabulated format.

This book is helpful for everyone who loves the passion of teaching. All efforts have been made to put this book in the hands of the people who are appearing within the shortest time possible. It is hoped that this book would meet their expectations and help them in all possible ways.

As this volume covers the topics of Pedagogy of Physical Sciences, which is also a part of DSC/TRT/TE, we hope the candidates will make use of it for their selection and for providing quality teaching-learning experiences.