M. Sc. DEGREE

Branch IV (B) CHEMISTRY

REGULATIONS AND SYLLABUS

(For the Candidates admitted from the academic year 2008 – 2009 and onwards)

Course of Study FIRST YEAR Semester I

Code No.	Course	Subject	Work load per Semester (bours)
	Core Paper – I	Organic Chemistry I	75
	Core Paper – II	Inorganic Chemistry I	75
	Core Paper – III	Physical Chemistry I	75
	Elective Paper - I	Polymer Chemistry	90
	Core Practical – I	Organic Chemistry Practical I	45
	Core Practical – II	Inorganic Chemistry Practical I	45
	Core Practical - III	Physical Chemistry Practical I	45

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Advanced Research Methodology: Methods And Techniques Dr. S. Parvathy, Dr. M. Umayavalli, Dr. P. Ramu, Mrs. V. Manjula, 2023-07-28 The researcher's inner world is formed by his or her choice of research methodology which considers the nature of the study and the researcher's philosophy time frame and other contextual factors Furthermore the research methodology works as the central nervous system since it limits the scope of the investigation and because proper research work necessitates that both the internal and exterior surroundings adhere to the correct research methodology procedure Research methodologies refer to the procedures used to assemble information for studies The data might be used for theoretical or applied studies such as the strategic conceptualization of management research operational planning methodologies and change management Most of your work will be done when you complete the data analysis However before you start you need to consider specific crucial issues in research technique such as the validity of research data ethics and dependability After this comes the research plan which might be either purely experimental or include some elements of experimentation The last two steps are analyzing the data and producing the research report The data is meticulously sorted into graphs tables and only the most relevant information is presented A researcher must develop a research approach appropriate to the study s subject matter It is essential to remember that even if two topics need the same study approach Food Adulteration and Role of Hygiene Dr. S. Parvathy, Dr. M. Umayavalli, Dr. J. the research technique might differ Dharmaraja, Mrs. V. Manjula, 2023-06-26 The purpose of this book is to put out the knowledge of understanding and to identify a few common culinary adulterants Food is essential for life s sustenance and nourishment Food adulteration defrauds the consumer and can pose grave health risks in certain instances In accordance with the provisions of the Prevention of Food Adulteration Act of 1954 and the rules promulgated thereunder food adulteration is a punishable offence Hygiene is a concept associated with medicine as well as personal and professional care practices related to most aspects of daily life although it is most commonly associated with sanitation and preventative measures Personal hygiene can prevent food borne illness Food poisoning causing bacteria can be found on everyone including healthy individuals Due to the significance of food contemporary society views food adulteration as a grievous and unforgivable socioeconomic transgression In fact The Adulteration of Food Stuffs and Other Food is a concurrent list item in the Indian Constitution In order to prevent this food adulteration the Indian government has enacted The Prevention of Food Adulteration Act 1954 as a piece of consumer legislation Green Chemistry - I Dr. M. Umayavalli, Dr. S. Parvathy, Dr. Bhavani Boddeda, Mr. S Ganesan, 2024-01-22 The concept of green chemistry which is often referred to as sustainable chemistry is a chemical philosophy that promotes the development of products and processes that minimize or eliminate the use of hazardous compounds and the production of such substances Green chemistry is an approach to chemistry that aims to minimize and avoid pollution at its source in contrast to environmental chemistry which is the study of chemistry that includes the natural environment and the

substances that cause pollution in nature Within the United States of America the Pollution Prevention Act was enacted in the year 1990 With the aid of this legislation a method of operation was developed for addressing pollution in a manner that was both creative and inventive It aims to prevent issues from occurring in the first place Companies have been able to reach commercial and social objectives while simultaneously benefiting the environment as a result of innovations and uses of green chemistry brought about by the field of education Given that education is the precursor to implementation a student must get training to apply chemistry in a more environmentally friendly manner To serve as a textbook for a discipline specific elective source this book on green chemistry has been developed. This book was prepared with the intention of introducing the idea of green chemistry to students who are enrolled in college level courses **Intellectual Property** Rights In India Dr. S. Parvathy, Dr. P. Pitchaimuthu, Dr. M. Umayavalli , Dr. P. Ramu, In India the use of works produced by the human mind is subject to legal restrictions known as intellectual property rights These rights have just recently begun to be recognized and protected Industrial property includes things like patents designs and trademarks One's rights as the author of a piece of literature or inventor of a technological advance in the industry include among other things the right to the exclusive use of one s work and the right to profit from one s innovation A person s Intellectual Property Rights include all the legal protections that come into being as a result of that person s original creative work Industrial property includes things like patents utility models industrial designs trademarks service marks trade names indications of source or appellations of origin and the suppression of unfair competition when copyrights Geographical indicators layout Designs and confidential information were added to industrial property they all became intellectual property in accordance with the International Convention for the Protection of Industrial Property Paris Convention A Textbook of Advanced Organic Chemistry-I Dr. Deepthi Chappidi, Dr. A. Caroline Grace, Dr. Praveen. S. Mugali, Mr. Manojkumar G. Shinde, Dr. Averineni Ravi Kumar, 2024-06-19 According to PCI regulations the book is titled A Textbook of ADVANCED ORGANIC CHEMISTRY I The authors of the book came up with the concept of providing a consolidated database for simple comprehension of ADVANCED ORGANIC CHEMISTRY I This book aims to enlighten readers on cutting edge drug delivery methods and provide quidance to tutors and students on the essential ideas of ADVANCED ORGANIC CHEMISTRY I The primary goal in writing this textbook was to fulfill undergraduates needs in accordance with PCI regulations by presenting material in an eloquent concise manner This volume is intended to inform postgraduate students on Pharmaceutical Jurisprudence in addition to adhering to the PCI curriculum for pharmacy undergraduate degrees We guarantee that this book will be highly appreciated by academics professionals in the field postgraduate students and graduates Nonetheless recommendations for how to make the text better are welcome and will be duly noted **Computer Applications in Drug Discovery and Development** Puratchikody, A., Prabu, S. Lakshmana, Umamaheswari, A., 2018-11-23 With more restrictions upon animal experimentations pharmaceutical industries are currently focusing on a new generation of experiments and technologies that are considerably

more efficient and less controversial The integration of computational and experimental strategies has led to the identification and development of promising compounds Computer Applications in Drug Discovery and Development is a pivotal reference source that provides innovative research on the application of computers for discovering and designing new drugs in modern molecular biology and medicinal chemistry While highlighting topics such as chemical structure databases and dataset utilization this publication delves into the current panorama of drug discovery where high drug failure rates are a major concern and properly designed virtual screening strategies can be a time saving cost effective and productive alternative This book is ideally designed for chemical engineers pharmacists molecular biologists students researchers and academicians seeking current research on the unexplored avenues and future perspectives of drug design Implementation, and Application of Cyber Security Intelligence and Analytics Om Prakash, Jena, Gururaj, H.L., Pooja, M.R., Pavan Kumar, S.P., 2022-06-17 Cyber security is a key focus in the modern world as more private information is stored and saved online In order to ensure vital information is protected from various cyber threats it is essential to develop a thorough understanding of technologies that can address cyber security challenges Artificial intelligence has been recognized as an important technology that can be employed successfully in the cyber security sector Due to this further study on the potential uses of artificial intelligence is required Methods Implementation and Application of Cyber Security Intelligence and Analytics discusses critical artificial intelligence technologies that are utilized in cyber security and considers various cyber security issues and their optimal solutions supported by artificial intelligence Covering a range of topics such as malware smart grid data breachers and machine learning this major reference work is ideal for security analysts cyber security specialists data analysts security professionals computer scientists government officials researchers scholars academicians practitioners instructors and students **Nanotechnology Applications for Improvements in Energy Efficiency and Environmental Management** Shah, M. A., Bhat, M. A., Davim, J. Paulo, 2014-07-31 As nanoscale research continues to advance scientists and engineers are developing new applications for many different disciplines including environmental remediation and energy optimization Nanotechnology Applications for Improvements in Energy Efficiency and Environmental Management combines up to date research findings and relevant theoretical frameworks on the subject of micro scale technologies being used to promote environmental sustainability Highlighting the impacts this technology has on energy production and remediation this book is an all inclusive reference source for professionals and researchers interested in understanding the multi disciplinary applications of nanotechnology and nanoscience Solid Waste Management and Disposal Practices in Rural Tourism Albattat, Ahmad, Singh, Amrik, Tyagi, Pankaj Kumar, Haghi, A.K., 2024-10-22 As rural tourism continues to grow managing the environmental impact particularly solid waste becomes increasingly important Effective waste management and disposal practices are essential for maintaining the natural beauty and sustainability of rural tourist destinations Addressing the issue of solid waste in these areas is crucial to preserving

ecosystems supporting local communities and ensuring that tourism development remains environmentally responsible and sustainable for the long term Solid Waste Management and Disposal Practices in Rural Tourism provides a thorough exploration of how rural tourist destinations can implement effective waste management strategies By examining case studies modern trends and practical approaches this book offers valuable insights for policymakers tourism operators environmentalists and community leaders seeking to balance tourism growth with environmental responsibility The Year Book of the Indian National Science Academy Indian National Science Academy, 2003 Indian and Pakistan Year Book and Who's who Sir Stanley Reed, 1957 Issues for 1919 47 include Who s who in India 1948 Who s who in India and Pakistan

The Times of India Directory and Year Book Including Who's who Sir Stanley Reed, 1957 Issues for 1919 47 include Who s who in India 1948 Who s who in India and Pakistan Current Science ,1944 Who's Who in Science and Engineering 2008-2009 Who's Who Marquis, Marquis Who's Who, 2007-12 **Home Science and Physical Education Diploma** University of Otago. School of Home Science, 1951 Comprehensive Practical Chemistry XI Dr. N. K. Verma, B. K. Vermani, Dr. Neera Verma, 2010-02 Physical Chemistry Prof.(Dr.) Prashant Mundeja, Dr. Jyotsna Pandit, Dr. P. Durairaj, Dr. Praveen Singh Gehlot, 2023-03-27 The study of macroscopic and microscopic phenomena throughout chemical systems in terms of the principles practices and concepts of physics such as motion energy force thermodynamics time quantum chemistry statistical mechanics analytical dynamics and chemical equilibria is what is referred to as the field of physical chemistry Physical chemistry is a subfield of analytical chemistry This book will explain the fundamentals of physical chemistry as well as the phenomena that it studies The book demonstrates with the help of a limited number of formulae how the field of physical chemistry derives its concepts from the fields of physics quantum mechanics or mathematics and how these fields have all contributed to our comprehension of the natural world The theoretical underpinnings of chemistry are laid forth by the discipline of physical chemistry. In physics it is only able to go as high as its knees but in organic and inorganic chemistry the other two primary subfields of chemistry it can reach its head The book Physical Chemistry is often used as a text for students just starting in the field of physical chemistry. The book wide variety of topics including chemical bonding wave mechanics molecular spectroscopy ideal and nonideal gases the three laws of thermodynamics thermochemistry and solutions for nonelectrolytes Further included are the kinetics of gas phase processes colloids and macromolecules nuclear chemistry and radiochemistry Comprehensive Practical Chemistry XII Dr. N. K. Verma, B. K. Vermani, Dr. Neera Verma, K. K. Rehani, 2011-11

A Course in General Chemistry [with] Laboratory Manual William MACPHERSON (Professor of Chemistry, Ohio State University, and HENDERSON (William Edwards)), 1913

General Chemistry 2 and General Chemistry 2 MLS. Wageningen University Laboratory of Physical Chemistry and Colloid Science, 2014

Reviewing Msc Chemistry Practical Manual Periyar University: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "Msc Chemistry Practical Manual Periyar University," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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