

Admission Prospectus Amity University

Begomoviruses are one of the most interesting plant viruses to study for basic and applied research as they cause huge economic losses to agriculture industries and farmers all over the world. They belong to family Geminiviridae and are emergent plant viral pathogens which cause diseases in various crops in the tropical and subtropical regions. They are transmitted by the whitefly (*B. tabaci*) and have either one (monopartite DNA-A) or two (bipartite DNA-A and DNA-B) genomic components. DNA-A and DNA-B are of ~2600 - 2800 nucleotides each. A number of serious diseases of cultivated crops of the Fabaceae, Malvaceae, Solanaceae and Cucurbitaceae families are caused by Begomoviruses which are considered as threat to their cultivation in many countries. Accurate diagnosis is important for successful diseases management, since plants infected by Begomovirus do not recover, suffer serious yield losses and act as further sources of inoculum, which is then picked up and spread by their vector whitefly (*B. tabaci*). Reports of occurrence of new viruses and re-emergence of several known viruses in new niches have become regular event. In such a dynamic system, growth of several crop species relies on an accurate diagnosis, management and better understanding of the biology of the casual virus. This is crucial to evolve appropriate control practices and to prevent the virus infection. Researchers have achieved considerable progress in characterization, detection and management of virus on different crop species in the last decade. This book covers latest information in diagnosis of begomoviruses in the present scenario and explores the new vistas in the field of genomics and proteomics. Chapters in Section 1 illustrates the occurrence, genome organisation, transmission and diagnostics of begomoviruses. It also details the diseases caused by begomoviruses on different crops, detection techniques and management strategies in support of research findings by presentation of data, graphics, figures and tables. Section 2 is a chapterwise collection of occurrence, diversity and status of begomoviruses in Asian Africa counties where the diseases are most prevalent. This book will provide wide opportunity to the readers to have complete information and status of begomovirus in Asia and Africa. This will be useful resource for researchers and extension workers involved in the begomovirus disease diagnosis and molecular biology. Expert detection, accurate diagnosis and timely management play a significant role in keeping plants free from pathogens. In this book expert researchers share their research knowledge and literature which are vital towards the diagnosis of begomoviruses, addressing traditional plant pathology techniques as well as advanced molecular diagnostic approach. The book deals with the economically important crops including fruits, vegetables along with challenges in crop protection against diseases caused by begomovirus. This will be resourceful and handy for researcher, practitioners and also students. Project Planning, Appraisal, and Control is an all-inclusive book intended to meet

the necessities of postgraduate management students specializing in the area of finance. The purpose of this book is to acquaint readers with the theoretical and practical aspects of project management in an organization to maximize its value through various examples and revelations. This book makes the reader familiar with the objectives of project planning and various phases of projects. This book deals with the planning of the project with references to phases of capital budgeting and levels of decision making in an organization. It explains the various project charts and layout and also gives the details of the work schedules. It deals with the topic like project life cycle, project selection, feasibility study, and techniques like PERT and CPM. The techniques of project risk analysis and financial analysis have been discussed in detail with the help of sufficient numerical examples. It also contains the administrative aspects of capital budgeting and issues involved in project review. Most importantly the book includes several chapter-end problems and questions to test students' understanding of the subject. The main thrust of the book has been to bring home the concept clearly in the minds of readers.

Take a positive approach to behavior intervention for results that work—and last! When there's a nuclear meltdown happening in your classroom, this book is your trusted guide on what to do in the heat of the moment, and how you can prevent future incidents. These field-tested strategies integrate principles of behavioral intervention with the best practices of positive psychology. Inside you'll find:

- Ready-to-use tools and guidelines
- Practical guidance developed from the author's extensive experience training educators
- Solutions that work now and support each student's future well-being
- A deliberate focus at the classroom, building, and system level

Analytical Methods for Pesticides and Plant Growth Regulators, Volume IX: Spectroscopic Methods of Analysis covers the progress in spectroscopic methods for pesticide analysis. The book discusses the use of high-pressure liquid chromatography coupled to mass spectrometry for the analysis of heat-labile compounds; and the applications of nuclear magnetic resonance spectroscopy and related techniques, and visible and ultraviolet spectrophotometry. The text also describes the applications of spectrophotofluorometry, infrared spectrometry, and a collection of infrared spectra of important pesticides. Toxicologists, chemists, and people working in pesticide laboratories will find the book invaluable.

Nuclear isomers are the long-lived excited states of nuclei. Therefore, they constitute the meta-stable landscape of nuclei. The first isomer was probably identified as early as 1921. Since then, the number of isomers has been growing steadily picking up pace in recent times. Interest in nuclear isomers has grown in recent years for many reasons. The experimental capabilities to observe isomers have been expanding to cover a wider time scale. This has opened up new windows to observe and decipher the underlying nuclear structure and interactions. Further, the isomers are beginning to be seen as potential energy

storage devices and nuclear clocks with a host of applications. Possible discovery of a gamma ray laser has also ignited many researches in this area. Isomers now cover the full nuclear landscape with structural peculiarities specific to each region of the nuclear chart. Exploring the nuclear isomers, therefore, provides a novel insight into the nuclear structure properties of that region. There could be many different reasons for the long lives of excited nuclear states, which lead to the classification of isomers. Isomers are broadly classified into four classes: Spin isomers, shape isomers, fission isomers and K-isomers. Seniority isomers have also been identified which are often clubbed with the spin isomers. We discuss this classification and the underlying causes in detail. Many examples are considered to highlight the large variety of isomers. The range of half-lives covered by the isomers varies from billions of years to nano-seconds and even smaller. To understand this vast variation is a fascinating endeavor in itself. The angular momentum couplings, nuclear shapes, pairing etc. conspire together to give this vast range of half-lives. We go through these aspects in detail, highlighting the various selection rules at work. It is interesting that the nuclear shapes play an important role in many types of isomers. The spin isomers, which occur in spherical or, near-spherical nuclei, are generally confined to the magic numbers. Seniority isomers are largely found in semi-magic nuclei and should be explored in conjunction with the spin isomers. New developments in seniority and generalized seniority isomers are discussed in detail. As the nuclei deform; the nature of isomers changes. We take a close look into the decay properties of isomers in deformed nuclei, particularly the K isomers, the shape isomers and the fission isomers. While doing so, the theoretical and experimental developments of isomers are also addressed. A number of open questions are posed for possible new experiments and better understanding of the isomers.

The conference will be devoted to all advancements in Signal Processing and Integrated Networks. Researchers from all over the country and abroad will gather in order to introduce their recent advances in the field and thereby promote the exchange of new ideas, results and techniques. The conference will be a successive catalyst in promoting research work, sharing views and getting innovative ideas in this field. With reference to India.

This book focuses on advances made in both materials science and scaffold development techniques, paying close attention to the latest and state-of-the-art research. Chapters delve into a sweeping variety of specific materials categories, from composite materials to bioactive ceramics, exploring how these materials are specifically designed for regenerative engineering applications. Also included are unique chapters on biologically-derived scaffolding, along with 3D printing technology for regenerative engineering. Features: Covers the latest developments in advanced materials for regenerative engineering and medicine. Each chapter is written by world class researchers in various aspects of this medical technology. Provides unique coverage of biologically derived scaffolding. Includes separate chapter on how 3D printing technology is related to regenerative engineering. Includes extensive

references at the end of each chapter to enhance further study.

Project development is often a neglected and undermined part of an engineer's degree. Students often do not know what type of projects to undertake, both in terms of industry compatibility as well as their own interests. This book offers some guidelines of how to choose and implement small, medium and large complexity projects during the bachelor's course such that they are both industry-centric and interest-centric for the student. The author has aimed to provide a practical approach for selecting projects all throughout the degree culminating in a software industry ready new age engineer.

Sunlight on a Broken Column, first published in 1961, is an unforgettable coming-of-age story set against the turbulent background of Partition. 'The deftness with which Attia Hosain handles the interplay of manners, class, culture and different forms of female power is gorgeously done . . . Laila is such a remarkable heroine - sharp, spirited and passionate' - KAMILA SHAMSIE 'An extraordinary novel, with an extraordinary heroine.

Laila - even from the confines of the women's quarters - is a sharp observer of the tumultuous politics, and the cultural, racial, and religious conflicts of the dying days of the Raj. There is such richness here, waiting to be rediscovered. And readers will fall in love with Laila' MONICA ALI 'My life changed. It had been restricted by invisible barriers almost as effectively as the physically restricted lives of my aunts in the zenana. A window had opened here, a door there, a curtain had been drawn aside; but outside lay a world narrowed by one's field of vision' Laila, orphaned daughter of a distinguished Muslim family, is brought up in her grandfather's traditional household by her aunts, who keep purdah. At fifteen she moves to the home of her 'liberal' but autocratic uncle in Lucknow. As the struggle for Independence sharpens, Laila is surrounded by relatives and university friends caught up in politics, but she is unable to commit herself to any cause: her own fight for independence is a struggle against tradition. With its stunning evocation of India, its political insight and unsentimental understanding of the human heart, Sunlight on a Broken Column is a classic of Muslim life. Attia Hosain published only two books, but her writing has influenced generations of writers.

Discover Phoenix Fled, Hosain's acclaimed short-story collection, also published in Virago Modern Classics.

Natural products chemistry-the chemistry of metabolite products of plants, animals and microorganisms-is involved in the investigation of biological phenomena ranging from drug mechanisms to gametophytes and receptors and drug metabolism in the human body to protein and enzyme chemistry. Introduction to Natural Products Chemistry has collected the Remarkable advances in the area of biosensors have been fueled by explosive developments in miniaturization and nanotechnology. This book provides a comprehensive guide for academics, professionals, and postgraduates to the growingly relevant field of biosensors. Covering the fundamentals, it presents a wide range of biosensing approaches and discusses the latest developments in the field. It also explores applications of biosensing systems and devices, including microscale and nanoscale devices, in clinical, environmental, food, and biodefense analysis. In addition, the text addresses emerging challenges and their implications for researchers, technologists, and industrialists.

The book details many management courses available in India for students at the diploma, graduate and post-graduate level. It provides relevant information regarding courses, duration, institutions and other necessary guidelines.

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational &

Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

Teachers make a difference. The success of any plan for improving educational outcomes depends on the teachers who carry it out and thus on the abilities of those attracted to the field and their preparation. Yet there are many questions about how teachers are being prepared and how they ought to be prepared. Yet, teacher preparation is often treated as an afterthought in discussions of improving the public education system. *Preparing Teachers* addresses the issue of teacher preparation with specific attention to reading, mathematics, and science. The book evaluates the characteristics of the candidates who enter teacher preparation programs, the sorts of instruction and experiences teacher candidates receive in preparation programs, and the extent that the required instruction and experiences are consistent with converging scientific evidence. *Preparing Teachers* also identifies a need for a data collection model to provide valid and reliable information about the content knowledge, pedagogical competence, and effectiveness of graduates from the various kinds of teacher preparation programs. Federal and state policy makers need reliable, outcomes-based information to make sound decisions, and teacher educators need to know how best to contribute to the development of effective teachers. Clearer understanding of the content and character of effective teacher preparation is critical to improving it and to ensuring that the same critiques and questions are not being repeated 10 years from now.

Unit I : Animal Diversity-I (Non Chordate :Lower & Higher) Part A : Lower Non-Chordates (Invertebrates) Part B: Higher Non-Chordate Unit-II : Cell Biology & Biochemistry Unit-III : Genetics

This book explores the most up-to-date and common construction methods and technologies for different types of buildings, alongside the key construction materials and properties needed to carry them out. The book offers comprehensive coverage of the necessary topics for students, engineers, contractors and other professionals in the field of construction. It presents the topics in a logical, well-structured format that follows the natural sequence of a construction project. It also emphasizes in providing the most innovative information available in site investigation and planning, safety, Industrialised Building System (IBS), construction materials, and so forth. This book provides general and specific information for all types of building construction, therefore, can be a reference book for all practitioners in the industry. Relevant building codes, particularly Malaysian Codes, are frequently referenced, rounding out this need-to-know coverage that is critical to success in the industry. Keywords: Universiti Sains Malaysia, Penerbit Universiti Sains Malaysia, Penerbit USM

What are the challenges and opportunities of managing people in creative industries? How are the tensions between creative and commercial pressures mediated? The creative industries are an area of increasing economic importance. Yet creative industries and creative-based

organizations are rife with problems such as whether and how control of the creative process should be exercised; the extent to which knowledge of creative production may be made explicit; and how the 'connection' between producer and consumer should be mediated. In *Managing Creativity* a team of experts from a diverse range of fields - including management, fine art, music, the internet, design, theatre and publishing - discuss these and other problems concerning the relationship between management and creativity. Developing an appreciation of these problems is theoretically productive, not only because it throws light onto our understanding of creative-based organizations, but also because it can be revelatory about organizations more generally.

The second volume in applied ethics based on the distinguished Wayne Leys Memorial Lectureship Series. With guidelines from legal reasoning, Michael D. Bayles examines "Moral Theory and Application." Abraham Edel questions "Ethics Applied Or Conduct Enlightened?" The late Warner A. Wick shows in "The Good Person and the Good Society: Some Ideals Foolish and Otherwise" that devotion to ideals need not be either fanaticism or foolishness. John Lachs contends that many public gains are purchased at the cost of individuals being manipulated in "Public Benefit, Private Costs." James E. Childress in "Gift of Life..." considers ethical issues in obtaining and distributing human organs. Carl Wellman in "Terrorism and Moral Rights" argues that there can be no "rights-based justification" for anti-abortion terrorism.

Nanobiocatalysis has rapidly developed into a subarea of enzyme biotechnology. It combines the advances in nanotechnology that have generated nanoscale materials of different sizes, shapes, and physicochemical properties, and the excellent characteristics of biocatalysts into an innovative technology. This book provides an overview of the various relations between nanotechnology and biocatalysis. It discusses the fabrication and application of nanomaterials for the immobilization of enzymes used in the sustainable production of goods and chemicals. Nanosupports have several advantages compared with bulk solid materials because of their high surface area, which results in a significantly reduced mass transfer limitation and comparatively high enzyme loading. These characteristics are also of great use for applications in the fields of enzymatic biosensors, biofuel cells, bioelectronics, and photoelectrochemical analyte detection, where conductive nanomaterials improve the rate of electron transfer. The book also presents an overview of nanotoxicology and covers nanostructured enzyme catalysis in organic solvents and its potential application for biodiesel production, probing of enzymatic activity, and identification of enzyme functions of inorganic nanoparticles as enzyme mimics.

Applied Plant Virology: Advances, Detection, and Antiviral Strategies provides an overview on recent developments and applications in the field of plant virology. The book begins with an introduction to important advances in plant virology, but then covers topics including techniques for assay detection and the diagnosis of plant viruses, the purification, isolation and characterization of plant viruses, the architecture of plant viruses, the replication of plant viruses, the physiology of virus-infected hosts, vectors of plant viruses, and the nomenclature and classification of plants. The book also discusses defense strategies by utilizing antiviral agents and management strategies of virus and viroid diseases. With contributions from an international collection of experts, this book presents a practical resource for plant virologists, plant pathologists, horticulturalists, agronomists, biotechnologists, academics and researchers interested in up-to-date technologies and information that advance the field of plant virology. Covers the detection, control and management of plant viruses Discusses antiviral strategies, along with mechanisms of systemic induced resistance to enhance the defense of plants against viruses Provides contributory chapters from

expert plant virologists from different parts of the world

From Visual Surveillance to Internet of Things: Technology and Applications is an invaluable resource for students, academicians and researchers to explore the utilization of Internet of Things with visual surveillance and its underlying technologies in different application areas. Using a series of present and future applications – business insights, indoor-outdoor securities, smart grids, human detection and tracking, intelligent traffic monitoring, e-health department and many more – this book will support readers to obtain a deeper knowledge in implementing IoT with visual surveillance. The book offers comprehensive coverage of the most essential topics, including: The rise of machines and communications to IoT (3G, 5G) Tools and technologies of IoT with visual surveillance IoT with visual surveillance for real-time applications IoT architectures Challenging issues and novel solutions for realistic applications Mining and tracking of motion-based object data Image processing and analysis into the unified framework to understand both IOT and computer vision applications This book will be an ideal resource for IT professionals, researchers, under- or post-graduate students, practitioners, and technology developers who are interested in gaining a deeper knowledge in implementing IoT with visual surveillance, critical applications domains, technologies, and solutions to handle relevant challenges.

Dr. Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP, Noida, India. She is a recipient of several prestigious awards during her academic career. She is an active nationally-recognized researcher who produces dozens of papers in her field. She has contributed as an Organizing Committee member and session chair at Springer and IEEE conferences. Prof. Pradeep K. Garg worked as a Vice Chancellor, Uttarakhand Technical University, Dehradun. Presently he is working in the department of Civil Engineering, IIT Roorkee as a professor. Prof. Garg has published more than 300 technical papers in national and international conferences and journals. He has completed 26 research projects funded by various government agencies, guided 27 PhD candidates, and provided technical services to 84 consultancy projects on various aspects of Civil Engineering. Genomics is an interdisciplinary field of biology that delves into the structure, mapping, evolution, function and editing of genomes. It aims at the collective quantification and characterization of genes. This is done through the analysis and sequencing of genomes with the aid of high throughput DNA sequencing and bioinformatics. The studies of intragenomic phenomena like pleiotropy, heterosis, epistasis and other interactions between alleles and loci within the genome are also within the purview of this field. Genomics plays a crucial role in the fields of anthropology, medicine, biotechnology and other sciences. Metagenomics, functional genomics, structural genomics, epigenomics and model systems are the primary areas of research in genomics. This book includes some of the vital pieces of work being conducted across the world, on various topics related to genomics. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. This book is appropriate for students seeking detailed information in this area as well as for experts.

The second edition of Indian Economy: Performance and Policies has been thoroughly revised and updated. The Twelfth Five-Year Plan objectives, policies, approaches and data have been appropriately incorporated at suitable places. The book is specifically

designed to meet the course requirement of the paper on Indian Economy (Semester IV) for the students of BCom (Hons.) at the University of Delhi. KEY FEATURES • Data updated as per Twelfth Five-Year Plan • Adequate statistical information to help in the analysis of topics • Authentic and reliable sources of information • Questions from previous years' examinations to help students understand the pattern of questions

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