

# Science and Technology of Polymers - Web course

## COURSE OUTLINE

The main theme of the course on Science and Technology of Polymers is to focus understanding of science and technology of polymer synthesis and its characterization. Knowledge on solid state structure and properties of polymers will enable their proper selection for applications in domestic as well as industrial appliances.

As per the need of the day the essentiality of biodegradation of stable commodity as well as engineering polymers vis-a-vis design and development of biodegradable polymers have become a priority. Polymers have been established as very promising materials in electronic and medical implant devices.

Being a very good tailoring material polymer can be easily modified to suit a specific application provided there is knowledge in structure and properties of polymers. In order to prepare a suitable polymer product some input is necessary in compounding and processing behavior of polymers both in solution and melt state followed by product fabrication involving machineries. This course will highlight the above areas including polymer composites.

## COURSE DETAIL

| Sl No | Topic                                                                                                                     | Hours |
|-------|---------------------------------------------------------------------------------------------------------------------------|-------|
| 1.    | Basic concepts on polymers.                                                                                               | 2     |
| 2.    | Polymer raw materials.                                                                                                    | 1     |
| 3.    | Polymerization principles and processes (step, chain and other polymerizations, polymer kinetics).                        | 6     |
| 4.    | Polymerization techniques.                                                                                                | 2     |
| 5.    | Polymer manufacture (unit operations, polymer reactors, polymer isolation, handling and storage).                         | 4     |
| 6.    | Polymer structure and property.                                                                                           | 6     |
| 7.    | Polymer characterization.                                                                                                 | 2     |
| 8.    | Polymer modification.                                                                                                     | 2     |
| 9.    | Multicomponent polymeric materials (polymer miscibility, polymer blends and alloys, filled plastics, polymer composites). | 4     |



# NPTEL

<http://nptel.iitm.ac.in>

## Metallurgy and Material Science

### Pre-requisites:

Background in chemistry and physics

### Additional Reading:

Any basic book on polymer science and technology.

### Hyperlinks:

Will be given as video lecture progresses and will be embedded in web course

### Coordinators:

**Prof. B. Adhikari**  
Department of Materials Science IIT  
Kharagpur

# Materials Science Nptel

**Yoshiki Oshida**



## Materials Science Nptel:

**New Age Education Models** Dr. P. R. Muthuswamy, 2022-06-13 Rethinking Redesigning and Restructuring of higher education is the need of the hour This book intends to enlighten its readers about the 21st century education models for 21st century learners Such models would include skill oriented and technology based teaching and learning This book suggests various routes for student entrepreneurs to access resources throughout their college life to ultimately achieve their goals It also talks about the effectiveness of e learning tools in education emerging teaching techniques and methodologies by understanding the education models of different countries and benchmarking the best practices The book also highlights the importance and advantage of open source learning mobile learning and the role of creativity and its relevance with technology *Manufacturing Processes* Dheerendra Kumar Dwivedi, 2025-06-01 Metallic Glass-Based Nanocomposites Sumit Sharma, 2019-09-23 Metallic Glass Based Nanocomposites Molecular Dynamics Study of Properties provides readers with an overview of the most commonly used tools for MD simulation of metallic glass composites and provides all the basic steps necessary for simulating any material on Materials Studio After reading this book readers will be able to model their own problems on this tool for predicting the properties of metallic glass composites This book provides an introduction to metallic glasses with definitions and classifications provides detailed explanations of various types of composites reinforcements and matrices and explores the basic mechanisms of reinforcement MG interaction during mechanical loading It explains various models for calculating the thermal conductivity of metallic glass composites and provides examples of molecular dynamics simulations Aimed at students and researchers this book caters to the needs of those working in the field of molecular dynamics MD simulation of metallic glass composites Microbiology for Minerals, Metals, Materials and the Environment Abhilash, B. D. Pandey, K. A. Natarajan, 2015-02-25 Better Understand the Connection between Microbiology and the Inorganic World Microbiology for Minerals Metals Materials and the Environment links chemical metallurgical and other metal inherent systems with microbes and analyzes the interdependence between them Specifically intended to underscore the importance of microbes in environmental re Theoretical and Practical Approaches to Innovation in Higher Education Makewa, Lazarus Ndiku, 2019-12-27 Education badly needs effective innovations that can help produce high quality learning outcomes across the system The primary focus of educational innovations should be on teaching and learning theory and practice as well as on the learner parent community society and culture Technology applications need a solid theoretical foundation based on purposeful systemic research and a sound pedagogy Theoretical and Practical Approaches to Innovation in Higher Education is an essential scholarly publication that outlines the classification of innovations discusses the hurdles to innovation and offers ways to increase the scale and rate of innovation based transformations in the education system The publication argues that raising the quality and scale of innovations in education will positively affect education itself and benefit society Highlighting topics such as academic integrity e learning and learner engagement this book is vital for higher

education professionals academicians educators librarians course designers researchers and students     *Annual Report* India. Department of School Education & Literacy,2014     **Toughened Composites** Sri Bandyopadhyay,Raghavendra Gujjala,2022-12-09 This book covers micro and macro aspects of toughened composites covering polymer matrix metal matrix ceramic matrix and nanomatrix It gives the reader understanding of composite fabrication construction and lightweight yet high crack resistance performance macroscopic testing supported by microscopic bonding and debonding features models of stress transfer and commercial features of developing cheaper yet high quality materials Features Focuses on micro and macro aspects of toughening methods and principles of composite materials Includes all types of composites including polymer matrix metal matrix ceramic matrix and nanomatrix Covers corrosion resistance and oxidation resistance as well as solubility resistance Discusses the use of recycled materials Provides a good balance of long fibre short fibre nanoparticle and particulate modifiers This book aims at researchers and professionals in materials science composite materials fracture mechanics materials characterization and testing properties and mechanics nanomaterials aerospace and automotive engineering and structural engineering     **Advances in Mechanical Engineering** T. Rajmohan,S. Arumugam,K. Palanikumar,2015-11-27 Selected peer reviewed papers from the International Conference on Mechanical and Manufacturing Engineering ICMME 2015 April 2 3 2015 Kanchipuram India     **Open Access to Knowledge and Information** Anup Kumar Das,2008     Parliamentary Debates India. Parliament. Rajya Sabha,2014-08

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illustrative examples from the leading edge of application This edition contains new material on nanomaterials and nanostructures and includes a study of degradation and corrosion and a presentation of the main organic composite materials Illustrative examples include carbon fibres the silicon crystal metallic glasses and diamond films Applications explored include ultra light aircraft contact lenses dental materials single crystal blades for gas turbines use of lasers in the automotive industry cables for cable cars permanent magnets and molecular electronic devices Covers latest materials including nanomaterials and nanostructures Real world case studies bring the theory to life and illustrate the latest in good design All major classes of materials are covered in this concise yet comprehensive volume     *MATERIALS SCIENCE AND ENGINEERING* V. RAGHAVAN,2004-01-01 This well established and widely adopted book now in its Fifth Edition provides a thorough analysis of the subject in an easy to read style It analyzes systematically and logically the basic concepts and their applications to enable the students to comprehend the subject with ease The book begins with a clear exposition of the background topics in chemical equilibrium kinetics atomic structure and chemical bonding Then follows a detailed discussion on the structure of solids crystal imperfections phase diagrams diffusion in solids and phase transformation This provides a deep insight into the structural control and the various properties of materials The mechanical properties described include elastic anelastic and visco elastic behaviour plastic deformation and creep and fracture phenomena The last four chapters which form the concluding part are devoted to a detailed description of the electrical properties conduction superconductivity semicon ductor and magnetic and dielectric properties     Materials Science and Engineering William D. Callister, Jr.,David G. Rethwisch,2018-02-23 Materials Science and Engineering An Introduction promotes student understanding of the three primary types of materials metals ceramics and polymers and composites as well as the relationships that exist between the structural elements of materials and their properties The Enhanced E Text is also available bundled with an abridged print companion and can be ordered by contacting customer service here ISBN 9781119463153 Price 97 95 Canadian Price 111 50     Foundations of Materials Science and Engineering William F. Smith,Javad Hashemi,2018-01-26 To prepare materials engineers and scientists of the future Foundations of Materials Science and Engineering Sixth Edition is designed to present diverse top ics in the field with appropriate breadth and depth The strength of the book is in its balanced presentation of concepts in science of materials basic knowledge and engi neering of materials applied knowledge The basic and applied concepts are inte grated through concise textual explanations relevant and stimulating imagery detailed sample problems electronic supplements and homework problems This textbook is therefore suitable for both an introductory course in materials at the sophomore level and a more advanced junior senior level second course in materials science and engi neering The extensive media package available with the text provides tutorials and animations as well as image files case studies FE Exam review questions and a solutions manual and lecture PowerPoint files for instructors

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