

B.E. Automobile Engineering 3rd Year Syllabus

Anna University Regulation 2021

Semester - V Theory Subjects

- **AU3501 - Mechanics of Machines**
- **AU3502 - Automotive Electrical and Electronics**

Semester - V Practical Subjects

- **AU3511 - Automotive Electrical and Electronics Laboratory**

Semester - VI Theory Subjects

- **AU3601 - Automotive Pollution and Control**

Semester - VI Practical Subjects

- **AU3611 - Computer-Aided Vehicle Design and Analysis Laboratory**
- **AU3612 - Engine Testing and Emission Measurement Laboratory**



Anna University Automobile Engineering Syllabus

Zhe Xu



Anna University Automobile Engineering Syllabus:

Automobile Mechanics Automobile Mechanics A.K. Babu, S.C. Sharma, T.R. Banga, The book is designed to become a valid source of information to assist the student both in and out of the classroom to attain his or her objective the structure of the text book is as follows Chapter 1 is an introduction to the book covering the basic information on automobiles Chapter 2 deals with engines and their auxiliary units Chapters 3 10 cover several aspects of design of automobile components SI system background mathematics and advice on problem solving particularly exam questions Chapters 11 15 cover essential theory part of support system for vehicles Numerous designs and fully worked problems are provided at the end of the chapter It is expected that as the student works through the examples and problems he or she will develop a greater understanding of the mathematics required for engineering To help the student develop a sound grasp of the principles covered there are many diagrams notes and applications as an aid to develop knowledge and facilitate understanding

Engineering Materials and Metallurgy RK Rajput, 2006 This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way The book comprise five chapters excluding basic concepts in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th Semester Mechanical Production Automobile Engineering and 2nd semester Mechanical disciplines of Anna University Electric & Hybrid Vehicles A.K. Babu, This concise book has been designed for easy reading and to meet the critical skill requirements of students in the branches of Automobile Engineering and Mechanical Engineering and Mechanical Engineering The contents are presented in 22 lucid chapters The book deals with the fundamentals electric vehicles EVs hybrid electric vehicles HEVs and fuel cell vehicles FCVs It comprehensively presents vehicle performance configuration and control strategy for different electric and hybrid electric vehicles This course book is intended for use as a Textbook and as a primary Reference book by colleges and technical universities offering core and elective subjects like Electric and Hybrid Vehicles and New Generation Vehicles

Basic Electrical and Electronics Engineering R. K. Rajput, 2012 *AI-Driven Solutions for Solar Energy Efficiency, Irradiance Modeling, and PV Forecasting* Alexandria, Auzuir Ripardo de, Upadhyay, Prashant, Galletta, Antonino, Sharma, Yashaswini, Yadav, Satya Prakash, 2025-08-08 The issue of intermittency or variations in solar irradiance caused by weather time of day and geographic considerations confronts the solar energy industry Because of this unpredictability precise forecasting and effective management of solar power generation are essential for a steady supply of energy Simultaneously artificial intelligence AI approaches in particular machine learning ML deep learning DL and neural networks have shown promise in resolving intricate nonlinear issues across a range of areas However the utilization of these technologies for projecting solar irradiance and optimizing energy management is yet to be explored in depth necessitating specific skills and methods to properly tap into their potential AI Driven Solutions for Solar Energy Efficiency Irradiance Modeling and PV

Forecasting examines the relationship between solar energy and AI with a particular emphasis on how AI driven methods can improve solar power systems performance efficiency and forecasting It illustrates how AI based optimization algorithms may maximize energy output and reduce losses in photovoltaic PV systems and solar power plants Covering topics such as charge management microgrids and smart building designs this book is an excellent resource for engineers executives policymakers technologists environmental advocates business leaders investors professionals researchers scholars academicians and more

Handbook of Universities Ashish Kumar, 2006 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 Proceedings - Association of Indian Universities Association of Indian Universities, 1982 **The Hindu Index**, 2006 **Bulletin of the Institution of Engineers (India)**. Institution of Engineers (India), 1980 **Automobile Engineering** Babu A.K. & Singh Ajit Pal, This book is designed for students undertaking a subjects Automobile Engineering in Mechanical Engineering Degree as per the latest revised syllabus of all Indian Universities

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