

### III Semester

<b>TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES</b>			
Course Code:	<b>21MAT31</b>	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	3:0:0:0	SEE Marks	50
Total Hours of Pedagogy	40	Total Marks	100
Credits	03	Exam Hours	03
<b>Course Objectives:</b>			
<p><b>CLO 1.</b> To have an insight into solving ordinary differential equations by using Laplace transform techniques</p> <p><b>CLO 2.</b> Learn to use the Fourier series to represent periodical physical phenomena in engineering analysis.</p> <p><b>CLO 3.</b> To enable the students to study Fourier Transforms and concepts of infinite Fourier Sine and Cosine transforms and to learn the method of solving difference equations by the z-transform method.</p> <p><b>CLO 4.</b> To develop the proficiency in solving ordinary and partial differential equations arising in engineering applications, using numerical methods</p>			
<b>Teaching-Learning Process (General Instructions)</b>			
<p>These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.</p> <ol style="list-style-type: none"> <li>1. Lecturer method (L) need not to be only traditional lecture method, but alternative effective teaching methods could be adopted to attain the outcomes.</li> <li>2. Use of Video/Animation to explain functioning of various concepts.</li> <li>3. Encourage collaborative (Group Learning) Learning in the class.</li> <li>4. Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking.</li> <li>5. Adopt Problem Based Learning (PBL), which fosters students' Analytical skills, develop design thinking skills such as the ability to design, evaluate, generalize, and analyze information rather than simply recall it.</li> <li>6. Introduce Topics in manifold representations.</li> <li>7. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.</li> <li>8. Discuss how every concept can be applied to the real world - and when that's possible, it helps improve the students' understanding.</li> </ol>			
<b>Module-1</b>			
<p>Definition and Laplace transforms of elementary functions (statements only). Problems on Laplace transform of <math>e^{at} f(t)</math>, <math>t^n f(t)</math>, <math>\frac{f(t)}{t}</math>. Laplace transforms of Periodic functions (statement only) and unit-step function - problems.</p> <p>Inverse Laplace transforms definition and problems. Convolution theorem to find the inverse Laplace transforms (without Proof) and problems. Laplace transforms of derivatives, solution of differential equations.</p> <p><b>Self-study:</b> Solution of simultaneous first-order differential equations.</p>			
<b>Teaching-Learning Process</b>	Chalk and talk method /		
<b>Module-2</b>			
<p>Introduction to infinite series, convergence and divergence. Periodic functions, Dirichlet's condition. Fourier series of periodic functions with period <math>2\pi</math> and arbitrary period. Half range Fourier series. Practical harmonic analysis.</p> <p><b>Self-study:</b> Convergence of series by D'Alembert's Ratio test and Cauchy's root test</p>			
<b>Teaching-Learning Process</b>	Chalk and talk method / Powerpoint Presentation		

# Engineering Text Vtu Syllabus

**M Mosston**



## **Engineering Text Vtu Syllabus:**

*A Textbook Of Engineering Physics (as Per Vtu Syllabus)* S.O. Pillai,2007-01-01      *A Textbook On Elements Of Civil Engineering And Engineering Mechanics (as Per Vtu Syllabus)* S.S. Bhavikatti,2006-01-01      **Textbook of Elements of Mechanical Engineering** S. Trymbaka Murthy,2010 This book is essential reading for the students of Mechanical Engineering It is a rich blend of theoretical concepts and neat illustrations with footnotes and a list of formulae for ready reference  
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**Engineering Drawing And Graphics** Ke Vēṇugōpāl,2007 This Book Provides A Systematic Account Of The Basic Principles Involved In Engineering Drawing The Treatment Is Based On The First Angle Projection Salient Features Nomography Explained In Detail 555 Self Explanatory Solved University Problems Step By Step Procedures Side By Side Simplified Drawings Adopts B I S And I S O Standards 1200 Questions Included For Self Test The Book Would Serve As An Excellent Text For B E B Tech B Sc Ap Science Degree And Diploma Students Of Engineering Amie Students Would Also Find It Extremely Useful      **Operations Research** N. V. R. Naidu,G. Rajendra,2013-12-30 Operation Research has emerged as the most spectacular aspect of optimization techniques Practising professionals usually rate operations research as the most useful subjects studied in college Operations Research is designed for the students of industrial engineering and management This book comprises 12 chapters and provides the introduction of each chapter and various problems of real practical situation in the organizations as well as in daily life      **ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS** RAIKAR, R. V.,2017-07-01 This book equips the students with basic knowledge of certain facets of Civil Engineering and Engineering Mechanics as needed by them in the beginning of their engineering education The book is primarily tailored to conform to the first year B E curriculum as per Choice Based Credit System CBCS scheme of Visvesvaraya Technological University VTU Belgaum Karnataka It is a basic undergraduate textbook useful for students of all branches of engineering not only under VTU but also for other universities The text now in its Second Edition is thoroughly revised and updated Divided into five modules the book spreads over 13 chapters The first module discusses about Elements of Civil Engineering and the related engineering structures such as buildings roads bridges and dams as well as basic concepts of Engineering Mechanics The second and third modules deal with the application of basic concepts of Engineering Mechanics in analyzing the coplanar force systems In module four centroids and moment of inertia of plane figures are discussed The kinematics of bodies is presented in module five KEY FEATURES Written in such a style that students as well as instructors should find this text immensely useful Includes numerous exhaustive exercise problems and the practice problems along with their solutions Explains theoretical concepts with worked out examples NEW TO THIS EDITION Rearrangement of chapters as per the latest curriculum Includes 2 new chapters on Rectilinear Motion and Curvilinear

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