Jagadambha College of Engineering and Technology ,Yavatmal
Department of First Year Engineering (UG)

Year: First year	Semester: First
Course Name:EngineeringMathematics-I	**Course Code: CO111A1**
CO111A1 .1	Students will be able to identify algebraic problems from practical areas and obtain the solutions in certain cases.
CO111A1 .2	Students will be able to understand maxima and minima concept.
CO111A1 .3	Students will be able to solve differential equations of certain types, including systems of differential equations that they might encounter in the same or higher semesters.
CO111A1 .4	Students will be able to understand double and triple integration and enable them to handle integrals of higher orders.
CO111A1 .5	Students will be able to understand differential equationConcept and various methods of solving for it.
CO111A1 .6	Students will be able to understand electrical problems related to differential equation and solve them using differential equation.

Course Name: Engineering Physics	Course Code: CO111A2
CO111A2.1	Students able to classify solids on the basis of band theory and to calculate conductivity of semiconductor.Able to apply the knowledge of semiconductor deveices in engineering practicals and subject.
CO111A2.2	Students able to explain working of Laser which is high technology device and they able to understands the applicatin of laser.
CO111A2.3	Students able to understand the effect of magnetic field and electric field on motion of the partical.Able to apply knowledge in industry.
CO111A2.4	Students able to understood the construction and principle of optical fibre.They also able to understand attenuation in opticle fibre and apllication of fibre in various
CO111A2.5	Students able to understand the property of liquid and viscosity can apply the knowledge in further engineering studies.
CO111A2.6	Students able to undersatand the intensity variation of light due to polarization, interference and diffractione. They can understand the advantages of property of light in various application

Course Name: Engineering Mechanics	**Course Code: CO111A3**
CO111A3.1	Students able to determine the resultant force and moment for a given system of forces
CO111A3.2	Analysis of frame and friction.
CO111A3.3	Students able to determinethe centroid and second moment of area.
CO111A3.4	Students able to solve problems of kinetic in dynamic systems.
CO111A3.5	Students able to solve problems of kinematic in dynamic systems.
CO111A3.6	Students able to study about principle of work energy equation.

Course Name: Engineering Drawing	**Course Code: CO111A4**
CO111A4.1	Students will be able to know diffrents types of Engineering Curves and how to draw diffrents tyes of curves by various methods.
CO111A4.2	Students will be able to know the brief idea of projection and also draw projection of points projection of line and projection of plane.
CO111A4.3	Students will be able to draw orthographics projection of given machine parts by first angle and third angle methods.
CO111A4.4	Students will be able to know diffrents types of solid and draw the projection of diffrent types of solid
CO111A4.5	Students will be able to section of diffrents types of solid and how to project it.
CO111A4.6	Students develops the ability to draw the isometrics views and isometrics projection from the orthographics views of a given machine parts

Year: First year	Semester: Second
Course Name:EngineeringMathematics-II	**Course Code: CO111B1**
CO111B1.1	Student will be able to learn to solve solution of simultaneous equation by matrix method.
CO111B1.2	Student will be able to comprehend knowledge of fourier series in terms of Fourier expansion,harmonic analysis.
CO111B1.3	Student will be able to understand the basics of vector calculus comprising of gradients divergence and curl and line surface.
CO111B1.4	Student will be able to learn to reduce the reduction formulae,gamma and beta function,rectification.
CO111B1.5	Student will be able to learn Double and Triple integration and enable them to handle integrals of higher orders.

Course Name: Engineering Chemistry	Course Code: CO111B2
CO111B2.1	Student will be able to study fundamental concepts related to computer, its devices and function like input, output device, processor, memory…etc. It essential to become familiar with computer & its functioning. Again understand
CO111B2.2	Student will be able to know the history of Understandbasic programming concepts like input output statements, variable declaration, keyword, identifier..etc. It also essential for program implementation
CO111B2.3	Student will be able to understand concepts of looping & branching statement, function, various get & put functions. It is essential to build program for decision making conditions.
CO111B2.4	Student will be able to focus on the concept of structure & union .It is essential to understand that how one element can easily access different elements with different data types.
CO111B2.5	Student will be able to understand the concept of pointer. It is essential to understand how one variable can access address of another variable & how values can transfer.
CO111B2.6	Student will be able to understand the concept of file handling.

Course Name: Computer Programming	Course Code: CO111B3
CO111B3.1	Student will be able to study fundamental concepts related to computer, its devices and function like input, output device, processor, memory…etc. It essential to become familiar with computer & its functioning. Again understand
CO111B3.2	Student will be able to know the history of Understandbasic programming concepts like input output statements, variable declaration, keyword, identifier..etc. It also essential for program implementation
CO111B3.3	Student will be able to understand concepts of looping & branching statement, function, various get & put functions. It is essential to build program for decision making conditions.
CO111B3.4	Student will be able to focus on the concept of structure & union .It is essential to understand that how one element can easily access different elements with different data types.
CO111B3.5	Student will be able to understand the concept of pointer. It is essential to understand how one variable can access address of another variable & how values can transfer.
CO111B3.6	Student will be able to understand the concept of file handling.

Course Name: Electrical Engineering	Course Code: CO111B4
CO111B4.1	To understand the basic concepts of electrical quantities, electrical parameters, Kirchhoff's laws and different theorems.
CO111B4.2	To understand the basic concepts regarding magnetic circuits and electromagnetism
CO111B4.3	To understand the single phase AC Fundamentals regarding electrical parameters, phasor diagrams, impedance triangle with active and reactive power
CO111B4.4	To understand polyphase and three phase circuits, relationship between phase and line values of electrical quantities
CO111B4.5	To understand the principle, construction, working, EMF equation, classification and characteristics of Single phase transformers and DC machines
CO111B4.6	To understand different electrical apparatus and their safety measures.