



Mahavir Education Trust's  
**Shah & Anchor Kutchhi Engineering College,**  
Chembur, Mumbai 400 088  
**UG Program in Electronics Engineering**

**Academic Year 2018-19**  
**Semester – II**

<b>Unique Course Number: ITC201</b>		<b>Course: Applied Mathematics-II</b>
1.FEC201.1	Choose and utilize Gamma & Beta function to evaluate improper integrals	
1.FEC201.2	Identify the different types of differential equations and choose the analytical or numerical method to solve first order first degree differential equations.	
1.FEC201.3	Demonstrate the ability to evaluate definite integrals numerically using Trapezoidal, Simpson 1/3 <sup>rd</sup> & Simpson 3/8 <sup>th</sup> rule.	
1.FEC201.4	Solve and analyze the higher order linear differential equations with constant coefficients and its applications in related field of engineering.	
1.FEC201.5	Evaluate multiple integrals using a transformation of coordinates, change of order of integration.	
1.FEC201.6	Compute area, mass of lamina and volume by using double and triple integrals.	
<b>Unique Course Number: ITC202</b>		<b>Course: Applied Physics-II</b>
1.FEC.202.1	Comprehend principles of interference and diffraction	
1.FEC202.2	Illustrate the principle, construction and working of various LASERs and its applications	
1.FEC202.3	Identify various applications of optical fibers.	
1.FEC202.4	Comprehend the concepts of electrodynamics and Maxwell's equations and their use in telecommunication systems.	
1.FEC202.5	Apply the concepts of electromagnetism in focusing systems and CRO.	
1.FEC202.6	Comprehend the significance of nanoscience and nanotechnology, its applications.	
<b>Unique Course Number: ITC203</b>		<b>Course: Applied Chemistry-II</b>
1.FEC203.1	Understand the significance of corrosion on Engineering materials and to describe importance of different alloys and manufacturing of useful metallic and alloy articles (knowledge)	
1.FEC203.2	Identify different types of corrosion control methods to study corrosion control in various industries.	
1.FEC203.3	Apply the knowledge of different types of fuels, including their production and refining methods and combustion mechanisms.	
1.FEC203.4	Illustrate composition and properties of different types of alloys and the process of powder metallurgy.	
1.FEC203.5	Understand the importance of Green chemistry to reduce adverse environmental impacts and to design healthier	
1.FEC203.6	Illustrate properties and applications of different types of composite material.	
<b>Unique Course Number: ITC204</b>		<b>Course : Engineering Drawing</b>
1.FEC204.1	Apply the basic principles of projections in 1D and 2D drawings.	
1.FEC204.2	Apply the basic principles of projections in converting 3D view to 2D drawing.	
1.FEC204.3	Read a given drawing.	
1.FEC204.4	Visualize an object from the given two views.	



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1.FEC204.5	Use CAD tool to draw different views of a 3D object.
1.FEC204.6	Use CAD tool to draw an object in 3D.
<b>Unique Course Number: ITC205</b> <span style="float: right;"><b>Course : Structured Programming Approach</b></span>	
1.FEC205.1	Illustrate the basic terminology used in computer programming
1.FEC205.2	Illustrate the concept of data types, variables and operators using C.
1.FEC205.3	Design and Implement control statements and looping constructs in C.
1.FEC205.4	Apply function concept on problem statements
1.FEC205.5	Demonstrate the use of arrays, strings, structures and files handling in C.
1.FEC205.6	Demonstrate the dynamics of memory by the use of pointers to construct various data structures.
<b>Unique Course Number: ITC206</b> <span style="float: right;"><b>Course: Communication Skills</b></span>	
1.FEC206.1	Identify, interpret and construct appropriate messages for a variety of contexts.
1.FEC206.2	Display oral and written skills in the English Language in different scenarios of business communication.
1.FEC206.3	Enhance the ability to build vocabulary and identify common errors in the English Language.
1.FEC206.4	Demonstrate good comprehension making, paraphrasing and summarizing.
1.FEC206.5	Enhance the proficiency to use appropriate language for technical writing.
1.FEC206.6	Enhance proficiency to use appropriate language in social media.
<b>Unique Course Number: ITL201</b> <span style="float: right;"><b>Course: Basic Workshop Practice - II</b></span>	
1.FEL201.1	Study and use of hand tools and power tools
1.FEL201.2	Study of fitting operations, e.g. marking, punching, cutting, filling etc.
1.FEL201.3	Study of welding of two metal parts by using butt and lap joint.
1.FEL201.4	Study of different machine operations e.g. milling, surface grinding, metal lathe machine etc.